



Product Catalog

ATEN VanCryst™ Professional AV Solutions



2019 | 2020

Celebrating 40 Years

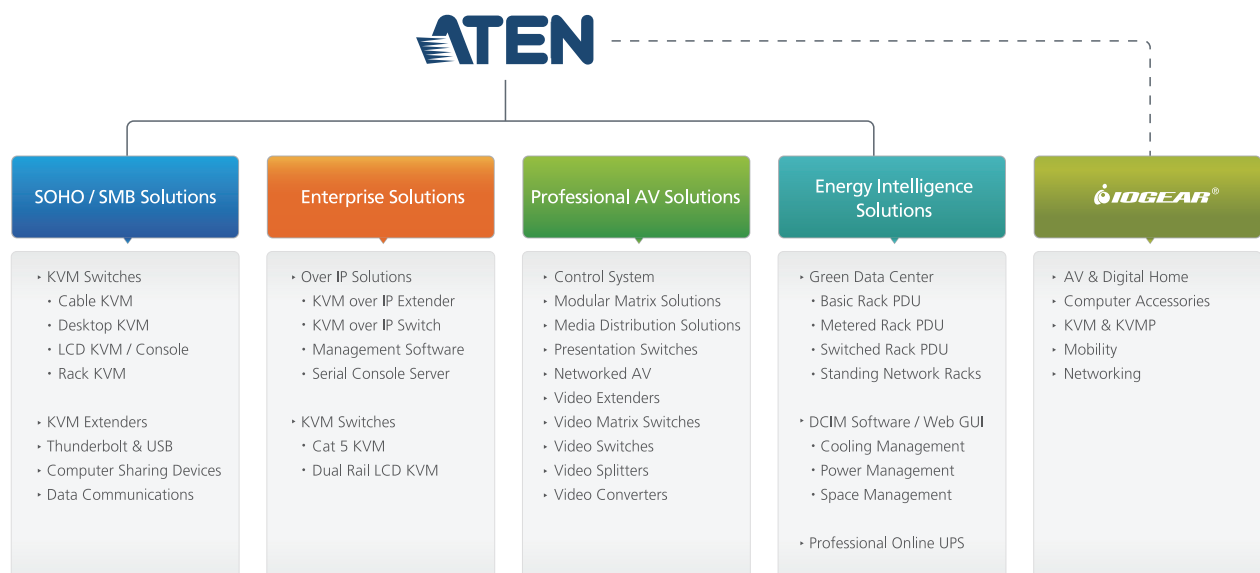
2019 marks ATEN's 40th anniversary since the company was established in 1979. ATEN's success is anchored upon our dedication to AV/IT technologies, and our commitment to sustained innovation and achieving excellence, all fueled by a passion for bringing better connectivity to the world. We will continue to enjoy a solid base of market diversity, geographical expansion, and numerous achievements in alliance with our highly respected clients and partners.

As an accelerator for the integration of AV and IT technologies, ATEN works consistently to create secure, efficient, and productive IP-based AV networking and IT control solutions. Offering integrated KVM, professional AV, and intelligent power solutions, ATEN products connect, manage, and optimize AV/IT equipment in corporate, government, education, broadcasting and media, and transportation environments.



ATEN Product Portfolio

- ATEN's Altusen™ Enterprise Solutions for IT infrastructure access and management offer integrated KVM connectivity and control capabilities for customers to facilitate the effective management of IT infrastructures from anywhere in the world.
- ATEN's VanCryst™ Professional AV Solutions leverage our enhanced video and control capabilities and offer signal management and system control components to build a multitude of flexible integrated solutions for all professional audio/video-related applications.
- ATEN's SOHO/SMB Solutions invite you to experience the very latest standards in USB connectivity, mobility, and speed while embracing the next generation of 4K-enabled workstation solutions.
- ATEN's NRGence™ Energy Intelligence solutions offer sensor-enabled, energy-saving hardware and software for data centers that provide real-time energy management and performance indicators.



Company Profile



CANADA R&D



USA (CA)



USA (NJ)



UK



BELGIUM

- Corporate Headquarters
- Subsidiaries and Regional Offices
- R&D Centers
- Manufacturing Facilities

Our Services for You

We help you satisfy all your customers' needs and grow your business.



Global Sales and Service Network

ATEN has a global network of sales and engineering professionals to provide our customers with fast, efficient, and comprehensive service. Our distribution channels and partners extend worldwide to more than 100 countries.



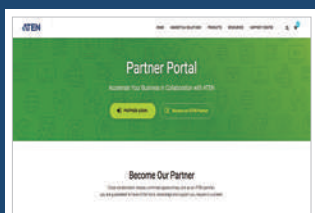
ATEN eNews

ATEN eNews is a monthly publication featuring the latest ATEN product developments, marketing and promotional resources, and corporate activities. Registered partners receive a monthly newsletter to stay up-to-date with ATEN's latest product news and events.



ATEN Download Center

As an ATEN partner, you are guaranteed to have all the tools, knowledge, and support you require to succeed. Authorized partners can access our intuitive information sharing platform to get the latest marketing materials, sales tools, technical documents, product certifications, and more. ATEN also provides integrated marketing programs and promotions to assist partners in promoting ATEN products and services.



ATEN Partner Portal

The ATEN Partner Portal is a web portal that is dedicated to Solution Partners, Channel Partners, and DMR Partners, and provides several ATEN online services, including technical support, product registration, and a wide range of unique partner services.

ATEN Video Product Landmarks

Year	Landmark	Product Name	Key Technology Advance
1993	• Video Splitter	VS104 / VS108	First VGA splitter
	• Video Splitter	VS102	
	• Video Switch	VS201	First VGA switch
	• Video Splitter	VS132	Increased bandwidth to 300 MHz
	• Video Extender	VE120L / VE120R	First VGA over Cat 5 extender
	• Video Splitter	VS92A / VS94A / VS98A	Increased bandwidth to 250 MHz
2006	• Video Switch	VS881	Added IR remote control
	• Video Switch	VS291 / VS491	
	• Video Switch	VS1601	Added audio
	• Video Switch	VS231 / VS431	First HDTV AV switch
	• Video Splitter	VS0116	Added audio
	• Video Matrix Switch	VS0202 / VS0204	First VGA matrix switch
2007	• DVI Switch	VS261 / VS461	First DVI switch
	• HDMI Switch	VS481A	First HDMI switch
	• DVI Splitter	VS162 / VS164	First DVI splitter
2008	• HDMI Splitter	VS182 / VS184	First HDMI splitter
	• Media Distribution Solution	VS1504 / VS1508 + VB552	First complete high resolution, long distance VGA digital signage solution with serial RS-232 and audio support
	• HDMI Extender	VE800	First HDMI extender
	• Video Splitter	VS132A / VS134A / VS138A	Increased bandwidth to 450 MHz; increased resolution to 2048 x 1536
	• Audio / Video Extender	VE200	First VGA with audio and serial extender added
2009	• Video Splitter	VS92A / VS94A / VS98A	Increased bandwidth to 350 MHz
	• DVI Extender	VE066	First mini DVI extender
	• HDMI Switch	VS0801H	
	• HDMI Splitter	VS0108H	
2010	• HDMI Matrix Switch	VM0404H	First HDMI matrix switch
	• Media Matrix Switch	VM0808T	First VGA-over-Cat 5 + audio matrix switch
	• Audio/Video Extender	VE500	VGA + balanced audio + Deskeew extender
	• Media Distribution Solution	VS1204T / VS1208T + VE170R / RQ	Complete high resolution, long distance VGA digital signage solution with audio support
	• Video Switch	VS0801	8-port VGA Switch + Audio
2011	• HDMI Media Distribution Solution	VS1804T / VS1808T + VE800R + VB802	First complete long distance HDMI digital signage solution
	• VGA to HDMI Converter	VC180	
	• HDMI Repeater Plus Audio De-embedder	VC880	
	• Dual View HDMI Switch	VS482	HDMI switch with ARC (Audio Return Channel) function
	• Mini Cat 5 A/V Extender	VE022	
	• DVI Extender with Audio	VE600A	
	• Mini DisplayPort Adapter	VC920 / VC960 / VC980	

Year	Landmark	Product Name	Key Technology Advance
2012	- Media Matrix Solutions - HDMI Matrix Switch - Video Matrix Switch + Audio - VGA Switch with Audio - DVI Dual Link Splitter with Audio - VGA Splitter - HDMI Extender over single Cat 5 with Dual Display - Universal A/V to HDMI Switch with Scaler	VM0808T / VM1616T + VE500 / VE300 VM0808H VM0808 VS0201 / VS0401 VS172 / VS174 VS0102 / VS0104 / VS0108 VE814 VC1080	First video extender to support 4K First universal switch to support scaler functionality
2013	- HDMI Media Distribution Solution 8 x 8 HDMI Matrix Switch with Scaler - Video Extender with Cascade - VGA/DVI/HDMI Over Cat 5 Extender Wall Plate	VS1814T / VS1818T + VE812R VM5808H VE172R VE156 / VE606 / VE806	Implemented HDBaseT solution First matrix switch to support Seamless Switch™ functionality Supports up to 10 Levels First extender with wall plate design
2014	- Modular Matrix Solution Series 3G / HD / SD-SDI Splitter - HDMI Active Optical Cable	VM1600 + VM7604 / VM8604 + VM7804 / VM8804 VS146 VE872 / VE873	First Modular Matrix Switch solution with Seamless Switch™ technology, ideal for video wall integration First SDI video splitter An active optical cable with exclusive ATEN AOC+™ technology
2015	- ATEN Control System - Serial Expansion Box 4 x 4 / 9 x 9 HDMI HDBaseT-Lite Matrix Switch 12-Port DP Video Wall Media Player	VK2100 / VK6000 / App VK224 VM3404H / VM3909H VS1912	First control system First expansion box for ATEN Control System First HDBaseT-Lite matrix switch First media player
2016	- Expansion Box - Modular Matrix Series - DisplayPort Splitter - DisplayPort Extender	VK236 / VK248 VM3200 VS192 / VS194 VE901	First DisplayPort Splitter First DisplayPort Extender
2017	- True 4K HDMI Splitter and Booster - HDMI over IP Extender	VS182B / VS184B VB800 VE8900 / VE8950	First Splitter and Booster supports up to True 4K First Video over IP Extender
2018	Presentation Switch Series	VP1920 / VP2730	First ATEN Presentation Switch



ATEN Professional AV Technologies

▶ Seamless Switch™

ATEN Seamless Switch™ technology features instantaneous video switching to deliver Full HD video powered by an exclusive seamless engine implemented at each output port. This high-performance engine processes AV signals by executing EDID and HDCP handshakes simultaneously at both source and display ends, scaling inputs for the best output resolution while setting the output clock timing and using a frame buffer to retain input signal information for the fastest output. This innovative processing of high-speed signals contributes to continuous video streams, real-time switching and stable signal transmission.

▶ Video Wall Integration with Scaler

A unique Scaler utilizing ATEN FPGA technology is built into ATEN's Seamless Switch™ Series to unify various video input signals and render optimum output resolutions on displays with uncompromised precision. Through an intuitive web GUI video wall profiles can be created with custom screen layouts for a wide range of Pro AV applications. Integrating a video wall processor and matrix switching capability, these products simplify the installation process and contribute to cost-effective management.

▶ FrameSync

ATEN's FrameSync Technology prevents screen tearing by synchronizing the frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls, especially when a fast-moving object appears on the screen.

▶ True 4K Support with HDR

ATEN offers a comprehensive portfolio of True 4K Pro AV solutions with High Dynamic Range (HDR) technology support that provide high-performance signal switching, extension, splitting, routing and distribution to deliver the ultimate visual experience with exceptional sharp and vibrant video quality. The series products are fully tested and certified to ensure full HDR support. Identify the right products for your performance requirements by looking for the ATEN True 4K and HDR logos.



▶ HDBaseT™ Technology

HDBaseT™ is a connectivity standard for whole-home and commercial distribution of uncompressed HD multimedia content. The cornerstone of HDBaseT™ technology is that it combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through a single Cat 5e/6a cable. HDBaseT™ is optimized for professional AV installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters.

▶ ATEN Exclusive Video Compensation technology

ATEN's patented video compensation technology permits video signals to be transmitted over long distances more accurately, improving upon the previous design by minimizing inaccuracy from 10 m to only 1 m. This technology not only improves the brightness but also achieves a higher skew tolerance for our video extender products.

▶ Deskew

ATEN's automatic and manual delay line synchronizing functions correct the color phase and time errors that occur when R/G/B video signals are sent long distances over Cat 5e/6 cables. ATEN's Deskew technology enables you to manually tune the R/G/B signals to ensure stable, high quality video in any extended video installation.

▶ EDID Expert™

ATEN offers an extensive portfolio of Pro AV products with selectable EDID modes to fulfill the requirements of different applications. In most cases where multiple video sources and displays or long-distance transmissions are demanded, the ATEN EDID Expert™ technology offers applicable EDID modes for selection that optimize the output capability throughout the installation for faster and very smooth video performance.

(See more details about ATEN EDID modes on the next page.)



The Distinguished Technologies of VanCryst™ Products

• ATEN EDID Modes

The EDID Expert offers several EDID modes for selection, including **Default**, **Port 1**, **Auto**, **Remix**, **Learn**, and **Customized** modes, and each is defined as follows:

- **Default:** This mode applies ATEN's default EDID data to all video sources by default when the system is powered on.
- **Port 1:** This mode applies the EDID data read from port 1 to all video sources. The system will enforce Default EDID data to all sources if port 1 is not occupied.
- **Auto:** This mode reads mixed EDID data from all connected displays and generates the optimum EDID for all video sources. The system will automatically re-generate a new EDID whenever a device is plugged in.
- **Remix:** This mode reads mixed EDID data from all connected displays and generates the optimum EDID for all video sources. The system will not re-generate a new EDID when a device is plugged in, unless triggered by a pushbutton or commands.
- **Learn:** This mode applies the EDID data of a specific display to all video sources. The system will not re-generate a new EDID when a device is plugged in, unless triggered by a pushbutton or commands.
- **Customized:** This mode allows user-defined EDID configurations for optimum output.

• Supported Video Resolutions in Default Mode

Supported video resolutions in Default EDID mode may vary upon the type of interface connected:

HDMI

640x480 @ 60 Hz	1920x1080 @ 60 Hz
640x480 @ 67 Hz	1920x1200 @ 60 Hz
640x480 @ 72 Hz	3840x2160p @ 60 Hz
640x480 @ 75 Hz	3840x2160p @ 50 Hz
800x600 @ 56 Hz	3840x2160p @ 30 Hz
800x600 @ 60 Hz	3840x2160p @ 25 Hz
800x600 @ 72 Hz	3840x2160p @ 24 Hz
800x600 @ 75 Hz	4096x2160p @ 60 Hz
1024x768 @ 60 Hz	4096x2160p @ 50 Hz
1024x768 @ 70 Hz	4096x2160p @ 30 Hz
1024x768 @ 75 Hz	4096x2160p @ 25 Hz
1280x720 @ 60 Hz (Native)	4096x2160p @ 24 Hz
1280x800 @ 60 Hz	480p
1280x1024 @ 60 Hz	576p
1280x1024 @ 75 Hz	720p 50Hz
1366x768 @ 60 Hz	720p 60Hz
1400x900 @ 60 Hz	1080i 50Hz
1440x1050 @ 60 Hz	1080i 60Hz
1600x1200 @ 60 Hz	1080p 60Hz
1680x1050 @ 60 Hz	

Note: From firmware version V1.0.079

DVI

640x480 @ 60 Hz	1280x800 @ 60 Hz
640x480 @ 67 Hz	1280x1024 @ 60 Hz
640x480 @ 72 Hz	1280x1024 @ 75 Hz
640x480 @ 75 Hz	1366x768 @ 60 Hz
800x600 @ 56 Hz	1400x900 @ 60 Hz
800x600 @ 60 Hz	1440x1050 @ 60 Hz
800x600 @ 72 Hz	1600x1200 @ 60 Hz
800x600 @ 75 Hz	1680x1050 @ 60 Hz
1024x768 @ 60 Hz	1920x1080 @ 60 Hz (Native)
1024x768 @ 70 Hz	1920x1200 @ 60 Hz
1024x768 @ 75 Hz	2560x1600 @ 60 Hz
1280x720 @ 60 Hz	

Note: From firmware version v1.0.075

VGA

640x480 @ 60 Hz	1152x870 @ 75 Hz
640x480 @ 67 Hz	1280x800 @ 60 Hz
640x480 @ 72 Hz	1280x1024 @ 60 Hz
640x480 @ 75 Hz	1280x1024 @ 75 Hz
800x600 @ 56 Hz	1366x768 @ 60 Hz
800x600 @ 60 Hz	1400x900 @ 60 Hz
800x600 @ 72 Hz	1440x1050 @ 60 Hz
800x600 @ 75 Hz	1600x1200 @ 60 Hz
832x624 @ 75 Hz	1680x1050 @ 60 Hz
1024x768 @ 60 Hz (Native)	1920x1080 @ 60 Hz
1024x768 @ 70 Hz	1920x1200 @ 60 Hz
1024x768 @ 75 Hz	



Why Choose ATEN VanCryst™ Professional AV Solutions?

40 Years of Experience

ATEN has been at the forefront of the data communication and connectivity industries since 1979 and has been an international leader in the entry- to mid-level KVM switch market for nearly 40 years. Our ATEN Professional AV Solutions have developed alongside our KVM expertise and now we are leveraging these enhanced video and control capabilities to expand further into this technology-intensive field. From our first video switch in 1993 to today's cutting-edge Modular Matrix Switch, 4K over IP Extender and a series of 4K/True 4K devices, we have been continually creating, developing and expanding our video products range. Given ATEN's experience and expertise in video-related technologies, it simply makes sense to source your ATEN Professional AV Solutions from us.

Flexible, Integrated Solutions

ATEN Professional AV Solutions give you crystal clear images from all vantage points – at home, in the office, and in commercial, industrial, information and entertainment environments. We have a full range of components that can be leveraged in different ways to fulfill the needs of various industries. From switches and splitters to extenders and converters – our range of video products provide you with a multitude of flexible, integrated solutions for all video-related applications. From installers looking for components to specialized providers looking for total video solutions, there is an ATEN product to meet all your professional AV needs. Why not let our vision become your advantage?

Quality Engineering

At ATEN, we employ engineers who are experts in their fields and provide them with an environment where they can thrive and give wings to their ideas. In return, our teams of resourceful and talented R&D professionals supply us with a continuous array of hi-tech video innovations that we are proud to supply to our customers. In addition to top quality engineering, every component is carefully selected and rigorously tested throughout the design and production process to ensure that ATEN only supplies video products of the highest quality where you can get the reliability and performance you demand.



Total Customer Satisfaction

Customer satisfaction has and always will be the number one priority at ATEN. To ensure this, excellence is pursued at every stage. We provide a constant stream of new products with innovative technologies. We can be relied upon for the highest quality manufacturing and for timely deliveries. We have a wealth of dedicated and talented sales service personnel, backed up by experienced technicians, who provide unparalleled customer support. All of this adds up to total customer satisfaction. We have a proven track-record of superlative after-sales and technical support for customers, re-sellers and partners across the board. There is no need to settle for less.

Exceptional Price Performance

One final reason to choose ATEN Professional AV Solutions is the exceptional performance they offer at considerably lower prices than the majority of the competition. ATEN prices might not be the very lowest on the market, but they certainly offer the best price-to-value ratio in terms of quality, performance, and after-sales support. Dollar-for-dollar, ATEN Professional AV Solutions outperform the competition. And the benefits of our know-how and high-tech automated manufacturing process are passed onto our customers who, in turn, are able to be competitive in their own markets. Get more for your money and reap the rewards with ATEN Professional AV Solutions.

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9-57	Optional Accessories	

Video Converters

10-3	4K HDMI/DVI to HDMI Converter with Audio De-embedder	VC881
10-5	HDMI Repeater Plus Audio De-embedder	VC880
10-6	2-Port 4K HDMI/VGA to HDMI Converter Switch	VC1280
10-7	HDMI to 3G-SDI/Audio Converter	VC840
10-8	HDMI to VGA/Audio Converter with Scaler	VC812
10-9	HDMI to VGA Adapter	VC810
10-10	3G-SDI to HDMI/Audio Converter	VC480
10-11	VGA/Audio to HDMI Converter with Scaler	VC182
10-12	VGA/Audio to HDMI Converter	VC180
10-13	VGA to DVI Converter	VC160A
10-14	Mini DisplayPort / DisplayPort to 4K HDMI Active Adapter	VC981 / VC986
10-15	DisplayPort to VGA/DVI/HDMI Adapter	VC925 / VC965 / VC985
10-16	Mini DisplayPort to VGA/DVI/HDMI Adapter	VC920 / VC960 / VC980
10-17	HDMI EDID Emulator	VC081
10-18	VGA/DVI/HDMI EDID Emulator	VC010 / VC060 / VC080
10-19	VGA EDID Emulator	2A-130G

Multi-View KVMP™ Switch

11-1	4-Port USB 4K HDMI Multi-View KVMP™ Switch	CM1284
11-4	4-Port USB DVI Multi-View KVMP™ Switch	CM1164A

Cables

12-1	305M HDBaseT SF / UTP Cat 6 Cable	2L-2910
12-3	305M Low Skew Cat 5e Cable	2L-2801
12-5	HDMI Cables	2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H
12-6	Cables	

Accessories

13-1	LockPro™ – HDMI Cable Lock	2X-EA12
13-2	Accessories Table	

Products

At the frontline of AV/IT convergence, ATEN's VanCryst™ professional AV products provide the components to build flexible, integrated solutions for video-related applications.

With support for all current video interfaces, extensive audio support, and the latest in cutting-edge AV control, ATEN VanCryst™ professional AV solutions always deliver the ultimate visual experience. Whatever your digital performance requirements, seamlessly transition to the highest resolutions and future-proof your video installation with ATEN VanCryst™ professional AV solutions.

Identify the right products for your performance requirements:

- ATEN Control System
- Management Software
- Presentation Switch Series
- Modular Matrix Solution Series
- Media Distribution Solution Series
- Video Matrix Switches
- Video Switches
- Video Splitters
- Video Extenders / Video Boosters
- Video Converters
- Multi-View KVMP Switches
- Cables

ATEN Control System

The ATEN Control System is a standard Ethernet-based management system that connects all the hardware devices in a room or large facility to provide centralized control directly and effortlessly from a mobile device and tablet computer.

The ATEN Control System can easily deploy into an existing installation and integrate seamlessly with ATEN Pro AV products, AV equipment, lighting systems, air conditioning, motion sensors, power switches and much more.

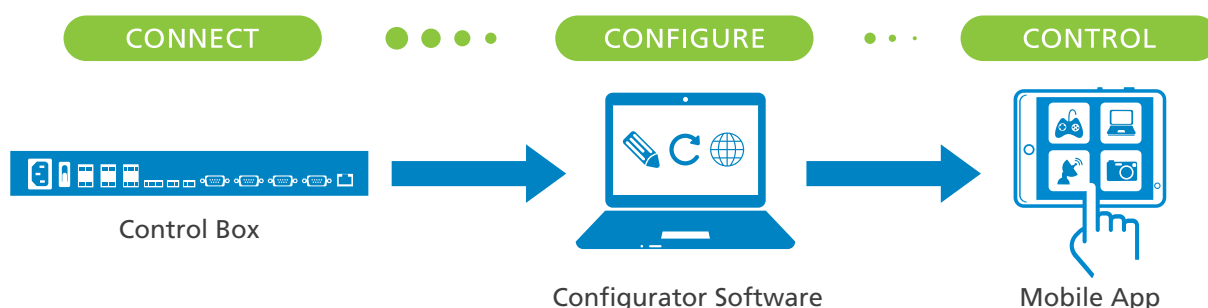
The ATEN Control System is perfectly applicable in meeting rooms, conference centers, boardrooms, classrooms or any room that requires collaboration of a variety of hardware devices through a streamlined management with optimum efficiency and performance.



How to Deploy the ATEN Control System?

No matter how large the room or how complicated the hardware, deploying the ATEN Control System can be completed in 3 easy steps:

- CONNECT all hardware to the Controller.
- CONFIGURE system settings with the Configurator Software.
- CONTROL the hardware from a mobile device via the Mobile App or Keypad.



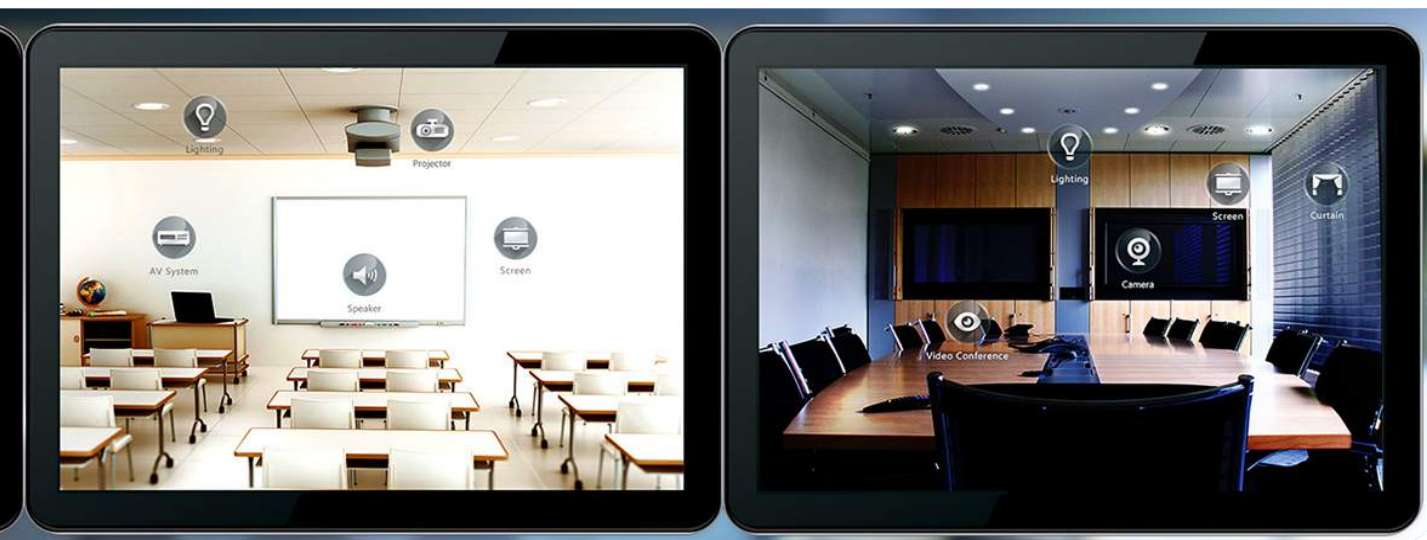
Specifications at a Glance

Controller	VK2100	VK1100	VK0100	VK0200
Type	Control Box (1U)	Control Box (1/2 Rack Wide)	Control Pad (US, 1 Gang)	Control Pad (EU, 2 Gang)
Serial	6	2	2	2
IR/Serial	4	2	N/A	N/A
Relay	4	4	2	2
Digital I/O	4	N/A	1	1
Ethernet	•	•	•	•
USB	•	•	N/A	N/A
DC 12V Power Supply	2A	1A	N/A	N/A
POE	N/A	N/A	•	•
IR Learning	•	•	N/A	N/A
Max. No. of 3rd Party Ethernet Devices Connected	25	25	8	8
Max No. of Viewers & Keypad Connected*	10	10	10	10
No. of Keypad buttons	N/A	N/A	4-8	6-12
Layout Combinations	N/A	N/A	14	125

Expansion Box	VK224	VK236	VK248
Interface	Serial	IR/RS232	Relay
Number of Ports	4	6	8
POE	•	•	•
Max. No. of Expansion Boxes per Controller	8	8	8

Keypad	VK108US	VK112EU
Type	US, 1 Gang	EU, 2 Gang
No. of Buttons	4-8	6-12
Layout Combinations	14	125
Power Supply	DC 5V or PoE	DC 5V or PoE
Max. No. of Keypads per Control Box	8	8

Note: *Contact your local sales representative if you require more than 10 connections. Please note that Control Pads do not support Keypad connections.



- **Intelligent Control**

Your devices can interact and respond to each other intelligently through pre-programmed actions to perform a fully automated series of advanced operations.

- **Real-time Synchronization**

Actual equipment status is synchronized in real-time across all control interfaces, enabling conflict-free control among multiple users simultaneously.

- **Simplified Setup**

The ATEN Control System is deployed in 3 easy steps: Connect, Configure, and Control. Easily set up and customize control patterns without any programming knowledge.

- **Effortless Expansion**

Highly expandable with a wide range of ATEN expansion boxes, a database of 10,000+ device drivers, and support for popular control standards and protocols.



- **User-centered Convenience**

An advanced, single-software solution creates intuitive control interfaces for any mobile device while specific needs can be conveniently tailored by selecting from an extensive library of action options and design elements.

- **On-the-Go Control**

Support for iOS, Android and Windows mobile devices facilitates centralized control of different rooms via user-defined profiles with simple point-n-tap operations.

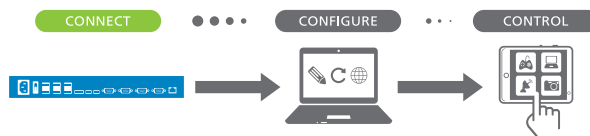


- **Integration Partners**

ATEN collaborates with professional AV partners to provide complete total solutions for applications of all sizes.



VK2100 Control Box



Features

- Supports various interfaces:
 - 6 x Serial ports
 - 4 x IR / RS-232 ports
 - 4 x Relay channels
 - 4 x I/O channels
 - 1 x Ethernet port
- 4 x 12 VDC outputs for power supply connection
- 1 x USB port for easy profile upload
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports project file backup¹
- Easy system configuration via web GUI
- Supports SSH communication for data monitoring²
- LED indication of connection and hardware status
- 2 free licenses for mobile control³
- Rack-mountable (1U)

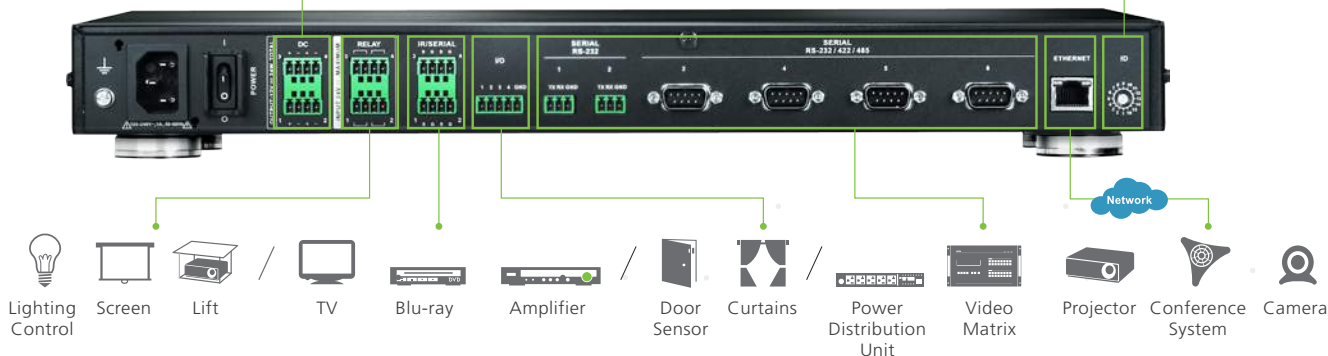
Note: 1.Each ATEN Control Box is capable of backing up one project file.
 2.The SSH protocol can be used for monitoring the receiving/ transmission data of the Control Box.
 3.If you require more than 2 licenses, contact the local sales representative.

LED indication for hardware status and active messages



4 DC outputs provide power supply of 24 W max.

Controller ID switch for easy IP setting



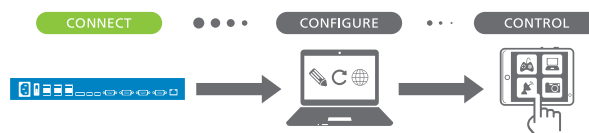
Specifications

Function	VK2100
Interfaces	
Serial	• 4 x Programmable Bi-directional RS-232/422/485 Ports (4 x DB9 Male Connectors, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS • 2 x Bi-directional RS-232 Ports (2 x 3-Pole Terminal Block Connectors); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), even or odd
IR/Serial	• 4 x Programmable IR / Uni-directional RS-232 Ports (2 x 4-Pole Terminal Block Connectors); - IR: TTL level (0 to 5 V) – Carrier Frequency: 10KHz~455KHz; - Serial: Uni-directional RS-232 (+ - 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
I/O	• 4 x Programmable Digital Input / Output Channels (1 x 5-Pole Terminal Block Connector); - Digital Output: 250 mA sink from 12 VDC - Digital Input: – VDC Mode - Input Voltage Range: 0 to 24 VDC; Programmable Range: 1 to 24 VDC; – Dry Contact Mode - Pull-up 2k ohms to + 12 VDC
Relay	• 4 x Relay Channels (2 x 4-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 2A
VDC	• 4 x 12 VDC Output Ports (2 x 4-Pole Terminal Block Connectors); • Power Supply: 12 VDC, 2A Max (shared by 4 ports)
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: - IP: 192.168.0.60; Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Power	1 x On/Off Switch
IR Learning	1 x IR Receiver LED
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A
Power	
Consumption	AC110V: 4.8W; AC220V: 5.7W
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.64 kg (5.81 lb)
Dimensions (L x W x H)	43.72 x 16.32 x 4.40 cm (17.21 x 6.43 x 1.73 in.)
License	
Basic (free)	2 free licenses
Max. No. Allowed	10 licenses
Carton Lot	1 pc
Included Accessories	1x Power Cord; 9x Terminal Blocks; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	13-2
4-Port Serial Expansion Box	VK224	1-11
6-Port IR/Serial Expansion Box	VK236	1-12
8-Channel Relay Expansion Box	VK248	1-13
8-Button Keypad (US, 1 Gang)	VK108US	1-19
12-Button Keypad (EU, 2 Gang)	VK112EU	1-18
8-Outlet eco PDU	PE6208AVX	NRGence 2-8
DB9-F to RJ45-F Adaptor	SA0141	Altusen 6-10
RJ45-F to DB9-M Adaptor	SA0145	Altusen 6-10

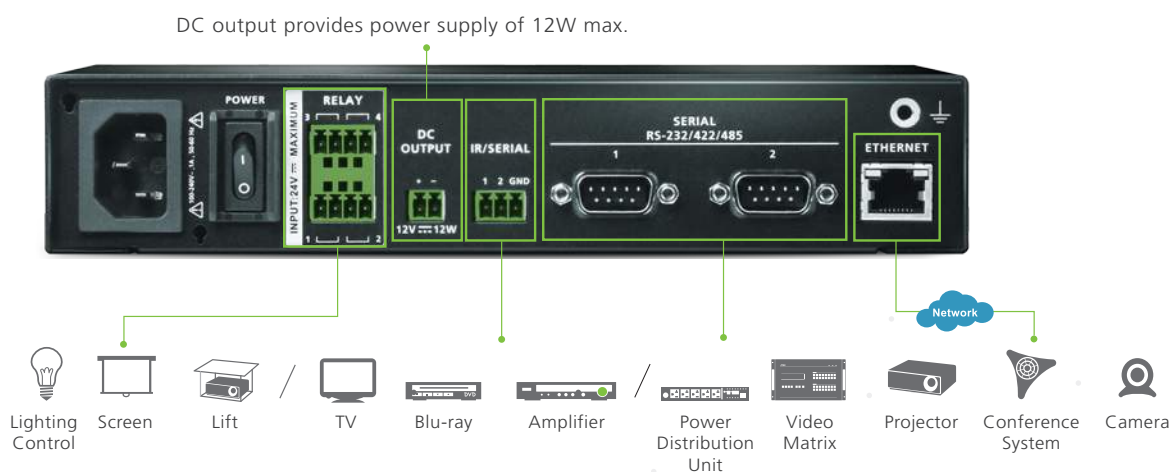
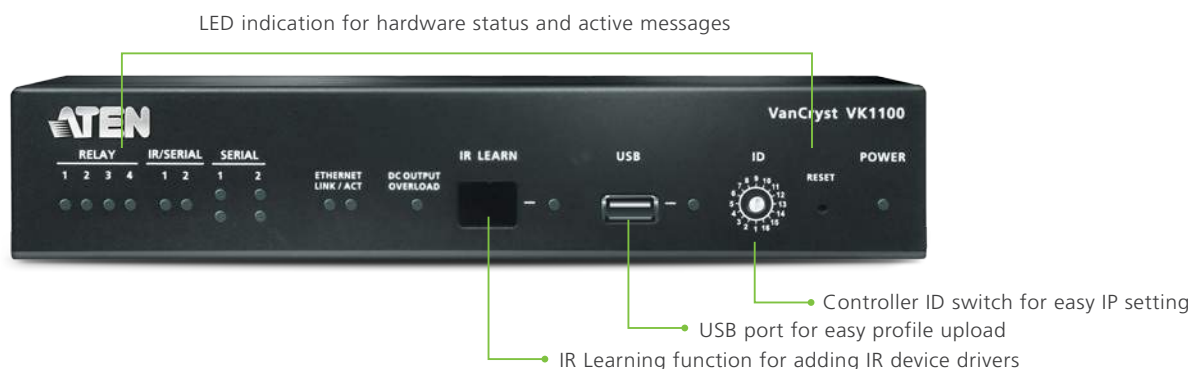
VK1100 Compact Control Box



Features

- Supports various interfaces:
 - 2 x Serial ports
 - 2 x IR / RS-232 ports
 - 4 x Relay channels
 - 1 x Ethernet port
- 1 x 12 VDC outputs for power supply connections
- 1 x USB port for easy profile upload
- IR learning function for adding IR device drivers
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PLink compliant
- Supports project file backup¹
- Easy system configuration via web GUI
- Supports SSH communication for data monitoring²
- LED indication of connection and hardware status
- 2 free licenses for mobile control³

Note: 1.Each ATEN Control Box is capable of backing up one project file.
 2.The SSH protocol can be used for monitoring the receiving/ transmission data of the Control Box.
 3.If you require more than 2 licenses, contact the local sales representative.



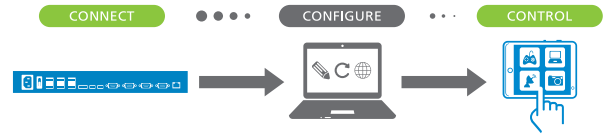
Specifications

Function	VK1100
Interfaces	
Serial	• 2 x Programmable Bi-directional RS-232/422/485 Ports (2 x DB9 Male Connectors, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS
IR/Serial	• 2 x Programmable IR / Uni-directional RS-232 Ports (1 x 3-Pole Terminal Block Connector); IR: – Carrier Frequency: 10KHz~455KHz; Serial: – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
Relay	• 4 x Relay Channel (2 x 4-Pole Terminal Block Connectors); • Normally open, isolated relays; • Contact Rating: Max 24 VDC, 2A
VDC	• 1 x 12 VDC Output Port (1 x 2-Pole Terminal Block Connector); • Power Supply: 12 VDC, 1A Max
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Power	1 x On/Off Switch
IR Learning	1 x IR Receiver LED
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A
Power	
Consumption	AC110V: 5.4W; AC220V: 5.4W
Maximum Input Power Rating	Internal Power: 100-240 VAC, 50-60 Hz
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.19 kg (2.62 lb)
Dimensions (L x W x H)	21.50 x 16.23 x 4.18 cm (8.46 x 6.39 x 1.65 in.)
License	
Basic (free)	2 free licenses
Max. No. Allowed	10 licenses
Carton Lot	3 pcs
Included Accessories	1x Power Cord; 4x Terminal Blocks

Optional Accessories

Description	Part No. / Spec.	Page No.
Full Range IR Emitter (1.8 m)	2XRT-0004G	13-2
Single Rack Mount Kit	2X-031G	13-2
4-Port Serial Expansion Box	VK224	1-11
6-Port IR/Serial Expansion Box	VK236	1-12
8-Channel Relay Expansion Box	VK248	1-13
8-Button Keypad (US, 1 Gang)	VK108US	1-19
12-Button Keypad (EU, 2 Gang)	VK112EU	1-18
8-Outlet eco PDU	PE6208AVX	NRGence 2-8
DB9-F to RJ45-F Adaptor	SA0141	Altusen 6-10
RJ45-F to DB9-M Adaptor	SA0145	Altusen 6-10

VK0200 12-Button Control Pad (EU, 2 Gang)



Front



Rear



Side

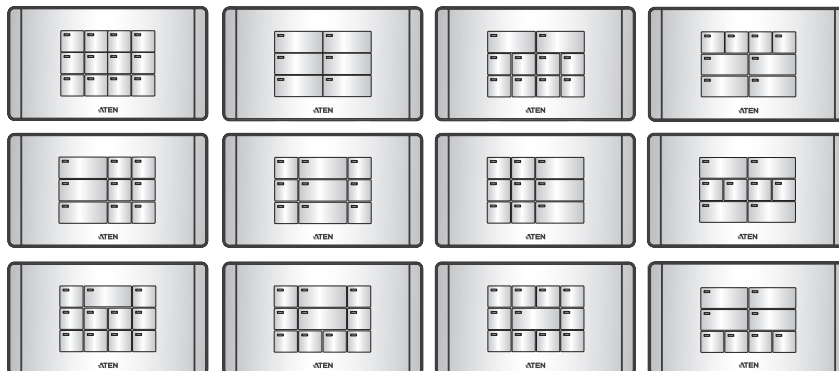
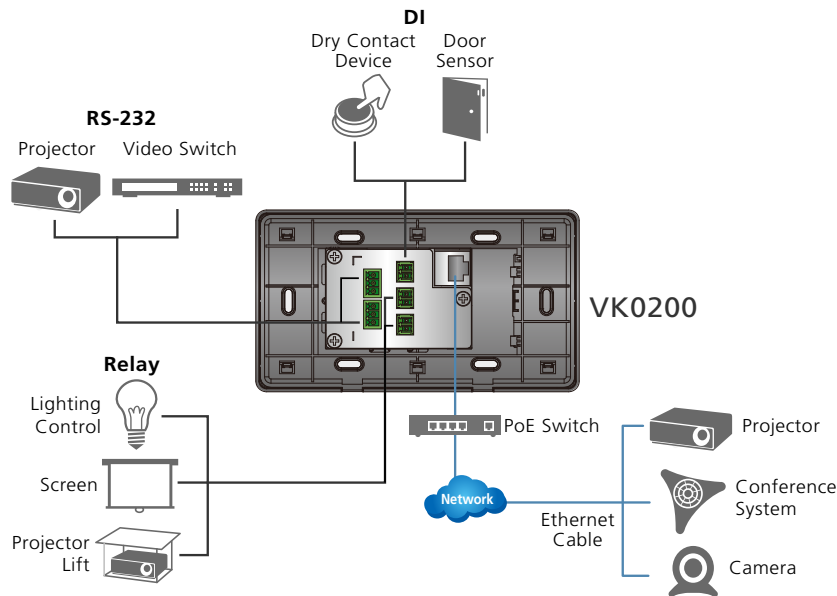


Features

- Supports various interface connections:
 - 2 x RS-232 ports
 - 2 x Relay channels
 - 1 x Digital input channel
 - 1 x Ethernet port
- Designed to mount in 2-gang EU-type and MK-type junction boxes
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports project file backup¹
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring²
- LED indication of connection and hardware status
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

Note: 1. Each ATEN Controller is capable of backing up one project file.
 2. The SSH protocol can be used for monitoring the receiving/transmission data of the Control Pad.

Setup > VK0200



Custom button placement on the Control Pad can be set in 125 different combinations of 6 to 12 buttons. The example above shows the 12 most commonly used.

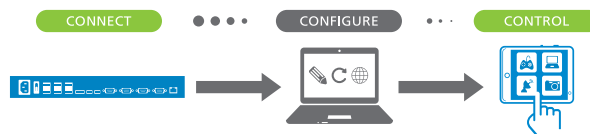
Specifications

Function	VK0200
Interfaces	
Keypad Layout	6~12 buttons customizable in 125 keypad layouts
Serial	• 2 x Bi-directional RS-232 Port (2 x 3-Pole Terminal Block Connector); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), even or odd
Relay	• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 1A
I/O	• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector); – VDC Mode - Input Voltage Range: 0 to 5 VDC; - Programmable Range: 1 to 5 VDC; – Dry Contact Mode - Pull-up 2k ohms to + 5 VDC
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power Consumption	DC5V: 1.15W; DC48V: 1.44W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.17 kg (0.37 lb)
Dimensions (L x W x H)	8.32 x 14.76 x 4.84 cm (3.28 x 5.81 x 1.91 in.)
Faceplate Dimensions (L x W x H)	8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1 Button Pack; 6 Terminal Blocks; 1 Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
4-Port Serial Expansion Box	VK224	1-11
6-Port IR/Serial Expansion Box	VK236	1-12
8-Channel Relay Expansion Box	VK248	1-13
8-Outlet eco PDU	PE6208AVX	NRGence 2-8

VK0100 8-Button Control Pad (US, 1 Gang)



Front w / Faceplate



Front



Side



Rear

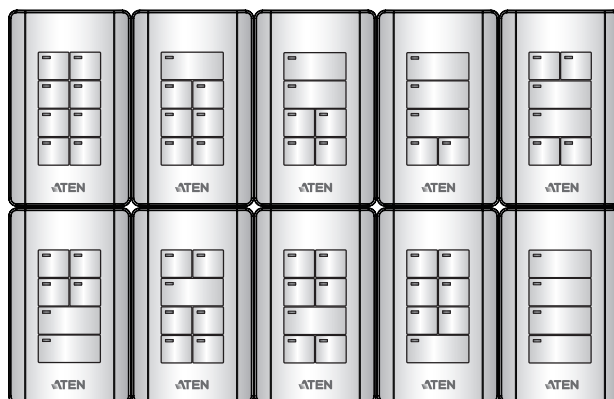
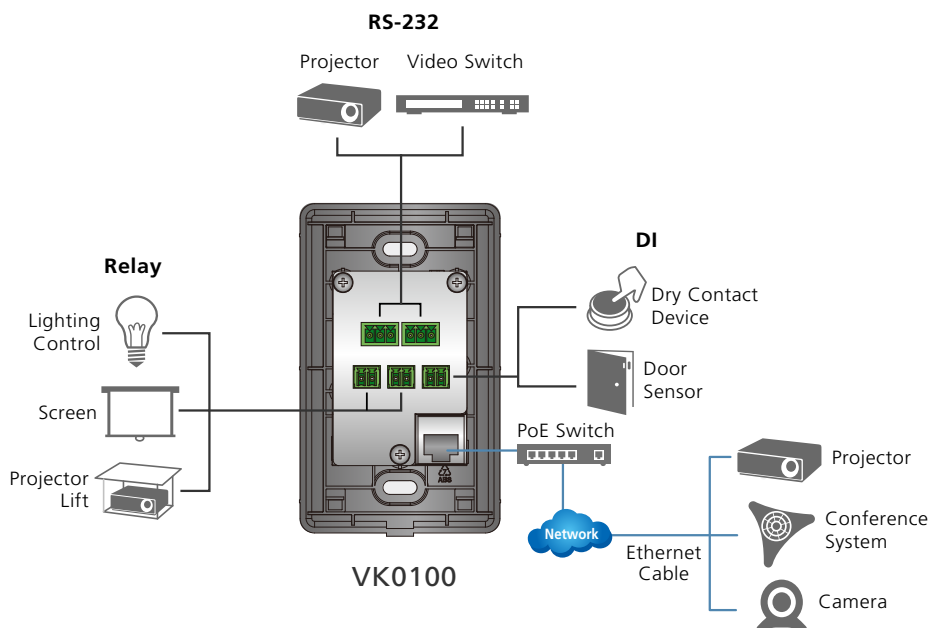


Features

- Supports various interface connections:
 - 2 x RS-232 ports
 - 2 x Relay channels
 - 1 x Digital input channel
 - 1 x Ethernet port
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- Supports native KNX IP for building management systems
- Telnet, TCP, UDP, HTTP, HTTPS, ONVIF, and PJLink compliant
- Supports project file backup¹
- Web GUI for easy system configuration
- Supports SSH communication for data monitoring²
- LED indication of connection and hardware status
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

Note: 1. Each ATEN Controller is capable of backing up one project file.
 2. The SSH protocol can be used for monitoring the receiving/ transmission data of the Control Pad.

Setup > VK0100



Custom button placement on the Control Pad can be set in 14 different combinations of 4 to 8 buttons. The example above shows the 10 most commonly used.

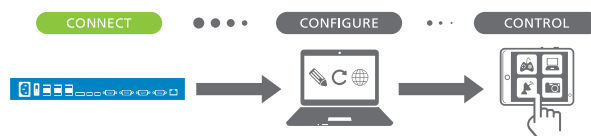
Specifications

Function	VK0100
Interfaces	
Keypad Layout	4~8 buttons customizable in 14 keypad layouts
Serial	• 2 x Bi-directional RS-232 Port (2 x 3-Pole Terminal Block Connector); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), even or odd
Relay	• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector); • Normally open, isolated Relays; • Contact Rating: Max 24 VDC, 1A
I/O	• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector); – VDC Mode - Input Voltage Range: 0 to 5 VDC; - Programmable Range: 1 to 5 VDC; – Dry Contact Mode - Pull-up 2k ohms to + 5 VDC
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power Consumption	DC5V: 1.16W; DC48V: 1.375W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.14 kg (0.31 lb)
Dimensions (L x W x H)	11.63 x 7.06 x 4.84 cm (4.58 x 2.78 x 1.91 in.)
Faceplate Dimensions (L x W x H)	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1 Button Pack; 6 Terminal Blocks; 1 Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
4-Port Serial Expansion Box	VK224	1-11
6-Port IR/Serial Expansion Box	VK236	1-12
8-Channel Relay Expansion Box	VK248	1-13
8-Outlet eco PDU	PE6208AVX	NRGence 2-8

VK224 4-Port Serial Expansion Box



Front



Rear



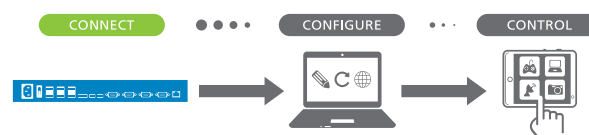
Features

- Provides 4 bi-directional RS-232/422/485 serial ports to expand the ATEN Control System
- Up to eight VK224 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK224 with a controller to instantly configure the network settings
- **Supports Power over Ethernet (PoE) or DC power supply**
- Firmware upgradable through USB or Web interface

Specifications

Function	VK224		
Interfaces			
Serial	• 4 x Programmable Bi-directional RS-232/422/485 Ports (4 x DB9 Male Connectors, configurable via pin assignments); – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS		
	RS-232	RS-422	RS-485
	Pin2: RX	Pin 1:RX-	Pin3:D+
	Pin3: TX	Pin 2: RX+	Pin 4:D-
	Pin 5: GND	Pin 3: TX+	
	Pin 7: RTS	Pin 4: TX-	
	Pin 8: CTS	Pin 5: GND	
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0		
Switches			
Controller ID	1 x 16-segment Switch		
Expander ID	1 x 8-segment Switch		
Reset Button	1 x Semi-recessed Pushbutton		
USB	1 x USB Type A (Firmware upgrade only)		
Power			
Consumption	DC5V: 3.8W; DC48V: 4.75W		
Environmental			
Operating Temperature	0 – 50°C		
Storage Temperature	–20 – 60°C		
Humidity	0 - 80% RH, Non-Condensing		
Physical Properties			
Housing	Metal		
Weight	0.45 kg (0.99 lb)		
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)		
Carton Lot	5 pcs		
Included Accessories	1x Mounting Kit		

VK236 6-Port IR/Serial Expansion Box



Front



Rear



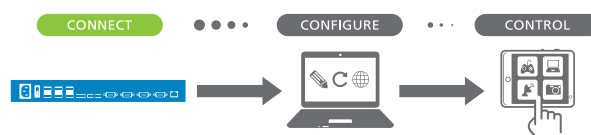
Features

- Provides 6 IR / RS-232 ports to expand the ATEN Control System
- Up to eight VK236 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK236 with a controller to instantly configure the network settings
- **Supports Power over Ethernet (PoE) or DC power supply**
- Firmware upgradable through USB or Web interface

Specifications

Function	VK236
Interfaces	
Serial	• 6 x Programmable IR / Uni-directional RS-232 Ports 6 x 2-Pole Terminal Block Connectors - IR: TTL level (0 to 5 V) – Carrier Frequency: 10KHz~455KHz; - Serial: Uni-directional RS-232 (+ - 5 V) – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A (Firmware upgrade only)
Power	
Consumption	DC5V: 1.31W; DC48V: 1.64W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.45 kg (0.99 lb)
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	6x Terminal Blocks; 1x Mounting Kit

VK248 8-Channel Relay Expansion Box



Front



Rear



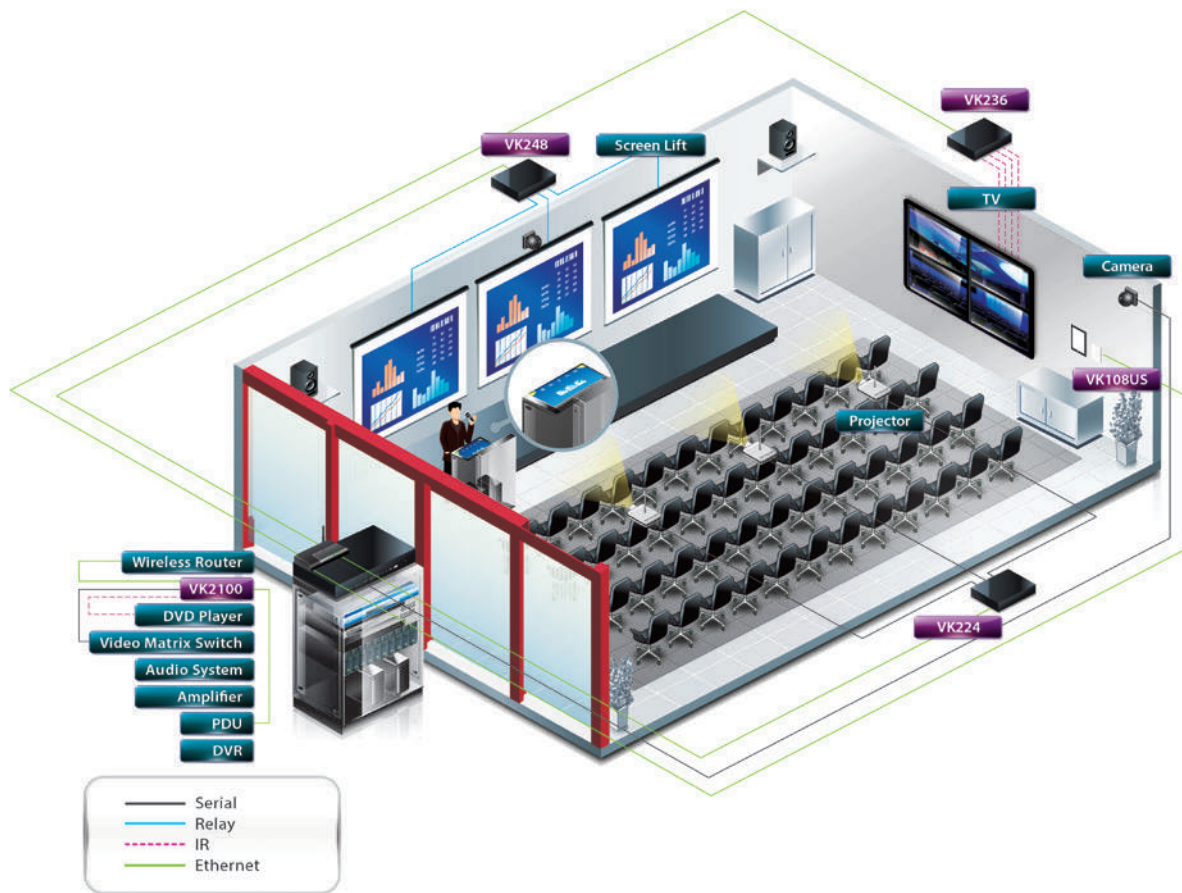
Features

- Provides 8 relay channels to expand the ATEN Control System
- Up to eight VK248 expansion boxes can be added to a single Control Box
- Flexible deployment: connects to a Control Box via an Ethernet connection
- ID Switch pairs the VK248 with a controller to instantly configure the network settings
- Provides DC power to power an AC relay module or other device
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB or Web interface

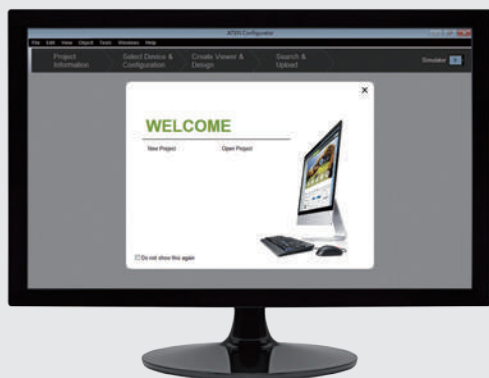
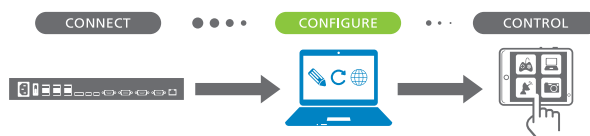
Specifications

Function	VK248
Interfaces	
Relay	• 8 normally open relays (8 x 2-pole terminal blocks) • Contact Rating: Max 24 VDC, 2A
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Switches	
Controller ID	1 x 16-segment Switch
Expander ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
USB	1 x USB Type A (Firmware upgrade only)
Power	
Consumption	DC5V: 2.82W; DC48V: 3.53W
Output	12 VDC, 300 mA
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg (1.43 lb)
Dimensions (L x W x H)	20.00 x 7.58 x 4.20 cm (7.87 x 2.98 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	9x Terminal Blocks; 1x Mounting Kit

Expandable Solution > with VK2100 Control Box and Expansion Boxes (VK224+VK236+VK248+VK108US)



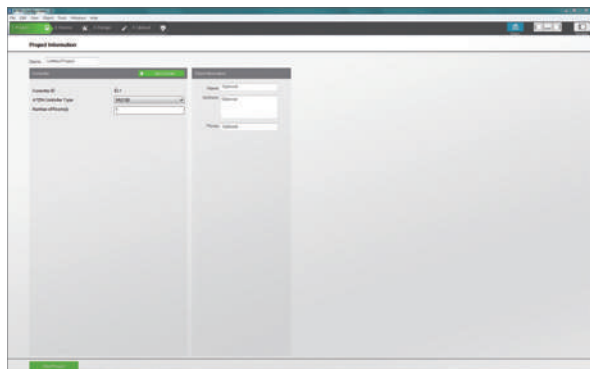
Configurator Software VK6000



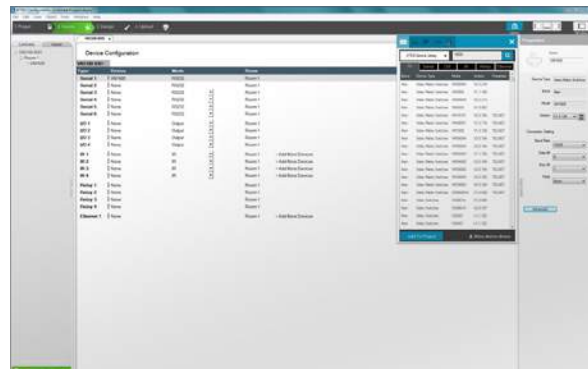
Features

- **Simple profile configuration via intuitive GUI**
- Customizable GUI to be used on mobile devices and PC
- Supports ControlAssist that allows remote PC control
- Built-in Database Generator for device driver setup and overall device management
- Built-in ATEN Library comprising 10,000+ device drivers and complete ATEN Pro A/V product drivers
- Scheduling for repeating events
- Two-way communication enables user-defined event monitoring to automatically trigger the next actions
- Status synchronization of managed devices across multiple mobile devices
- Test tool to verify commands in action before uploading the profile to the VK2100 / VK1100 / VK0200 / VK0100 Controller
- Simulator to simulate and review the customized GUI before uploading

1 Start Project



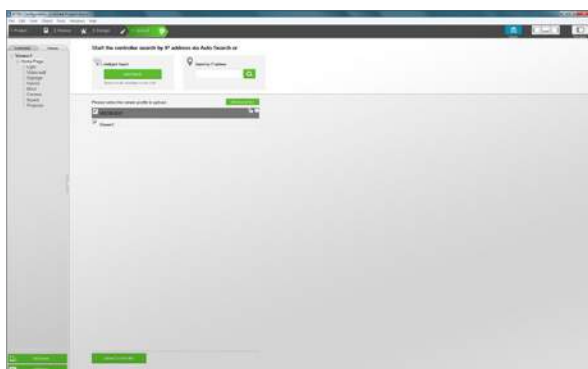
2 Configure Device



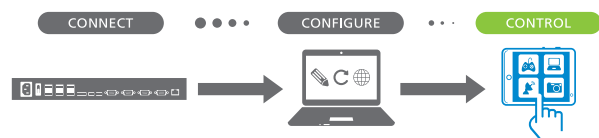
3 Create Viewer



4 Upload Profile



ControlAssist



Features

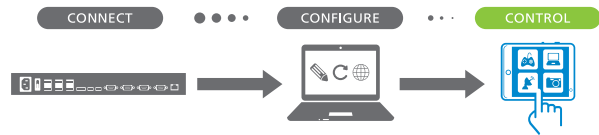
- Remote PC shutdown*
- Remote browsing and control of media files
- Remote preview and control of PowerPoint files
- Remote PC volume control
- Remote execution of programs
- Remote opening of files and URLs

* Note: Remote PC power on can be done via Wake on LAN function

PC Control Through ControlAssist



Mobile App



ATEN Control System Mobile App



Android



iOS



Windows

Features

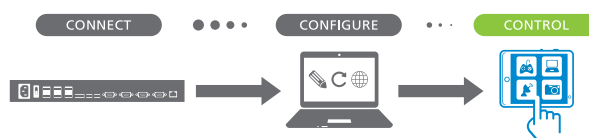
- Allows administrators to centrally control multiple rooms via different profiles on a single mobile device
- Restricted user access to profiles via password authentication
- Synchronization of system controls amongst multiple mobile devices



Multi-Room Control > Central Administration



VK112EU 12-Button Keypad (EU, 2 Gang)



Front



Rear



Side



Features

- Provides physical connection to the ATEN Control System
- Fully customizable with 125 layout combinations of 6 to 12 buttons
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box for future scalability
- Unrestricted modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

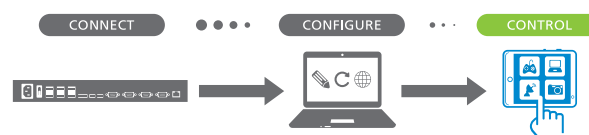
Specifications

Function	VK112EU
Interfaces	
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Keypad Layout	6~12 buttons customizable in 125 keypad layouts
Switches	
Controller ID	1 x 16-segment Switch
Keypad ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power	
Consumption	DC5V: 1.25W; DC48V: 1.56W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	–20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.14 kg (0.31lb)
Dimensions (L x W x H)	8.32 x 14.76 x 3.87 cm (3.28 x 5.81 x 1.52 in.)
Faceplate Dimensions (L x W x H)	8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1x Button Pack; 1x Terminal Block; 1x Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cat 5e Cable	2L-2801	12-3

VK108US 8-Button Keypad (US, 1 Gang)



Front w / Faceplate



Front

Side

Rear



Features

- Provides physical connection to the ATEN Control System
- Fully customizable with 14 layout combinations of 4 to 8 buttons
- System LED indicators for quick connection status check
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Up to 8 keypads connect to a single Control Box for future scalability
- Unrestricted modes support flexible behavior settings for each button
- Intuitive web GUI for easy keypad configuration
- Redundant power supplies – Power over Ethernet and DC 5V (optional)
- Customized button engraving service

Specifications

Function	VK108US
Interfaces	
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0
Keypad Layout	4~8 buttons customizable in 14 keypad layouts
Switches	
Controller ID	1 x 16-segment Switch
Keypad ID	1 x 8-segment Switch
Reset Button	1 x Semi-recessed Pushbutton
Power	
Consumption	DC5V: 1.25W; DC48V: 1.58W
Environmental	
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.13 kg (0.29 lb)
Dimensions (L x W x H)	11.63 x 7.06 x 3.89 cm (4.58 x 2.78 x 1.53 in.)
Faceplate Dimensions (L x W x H)	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in.)
Carton Lot	5 pcs
Included Accessories	1x Button Pack; 1x Terminal Block; 1x Faceplate

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cat 5e Cable	2L-2801	12-3



Management Software

Global AV Management Platform

2

Management Platform

The Global AV Management Platform is a server-based software for centralized management, monitoring and control of Ethernet-based, ATEN pro AV devices located remotely in different buildings, across a campus, or even another city. In addition to reducing the workload for IT administrators by synchronizing device statuses for centralized control and troubleshooting, the ATEN Global Management Platform provides an intuitive interface via which routine AV tasks can be scheduled and executed, making it the perfect solution to manage mass AV device deployments.

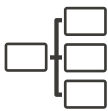


Why ATEN Global AV Management Platform?



Monitor

- Detect hardware connection status in real-time
- Track hardware conditions and respond to alert situations



Manage

- Oversee management of multiple devices across different locations
- Organize devices into user-defined location trees for easy navigation and management



Control

- Perform common AV, scheduling and device execution tasks as well as firmware upgrades remotely
- Batch control allows multiple devices to be grouped and controlled simultaneously

• Management Anywhere

As a server-based software, the Global AV Management Platform is accessible from anywhere on the network with the support of popular web browsers, allowing users to remotely manage, monitor, and control devices from anywhere, at anytime.



• Effortless Scalability

From one room to multiple rooms, at a single location to locations across a city, devices can be added and connected to the platform effortlessly, simplifying the management complexity of advanced applications.

• Intuitive Navigation and Control

Devices are mapped out on location trees and grouped for easy navigation and management at the device or overview level for a specific room or among buildings, empowering the user with the ability to manage and execute actions across grouped devices simultaneously.

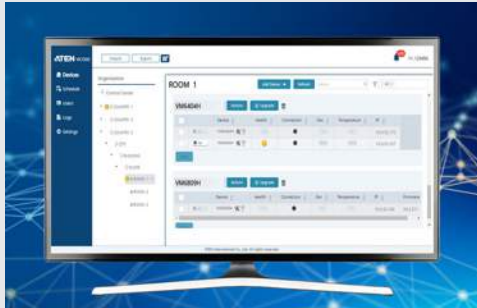
• Preventive Maintenance

Monitor and track hardware conditions proactively through the Alert, Notification and System Log functions for immediate troubleshooting as well as perform maintenance planning to avoid potential device failures.

• Enhanced Security

User rights can be managed so that access to sensitive data and related operations are configured to dedicated settings and kept in-house, providing the ability to tailor the platform to meet organizational security needs.

ATEN Global AV Management Platform

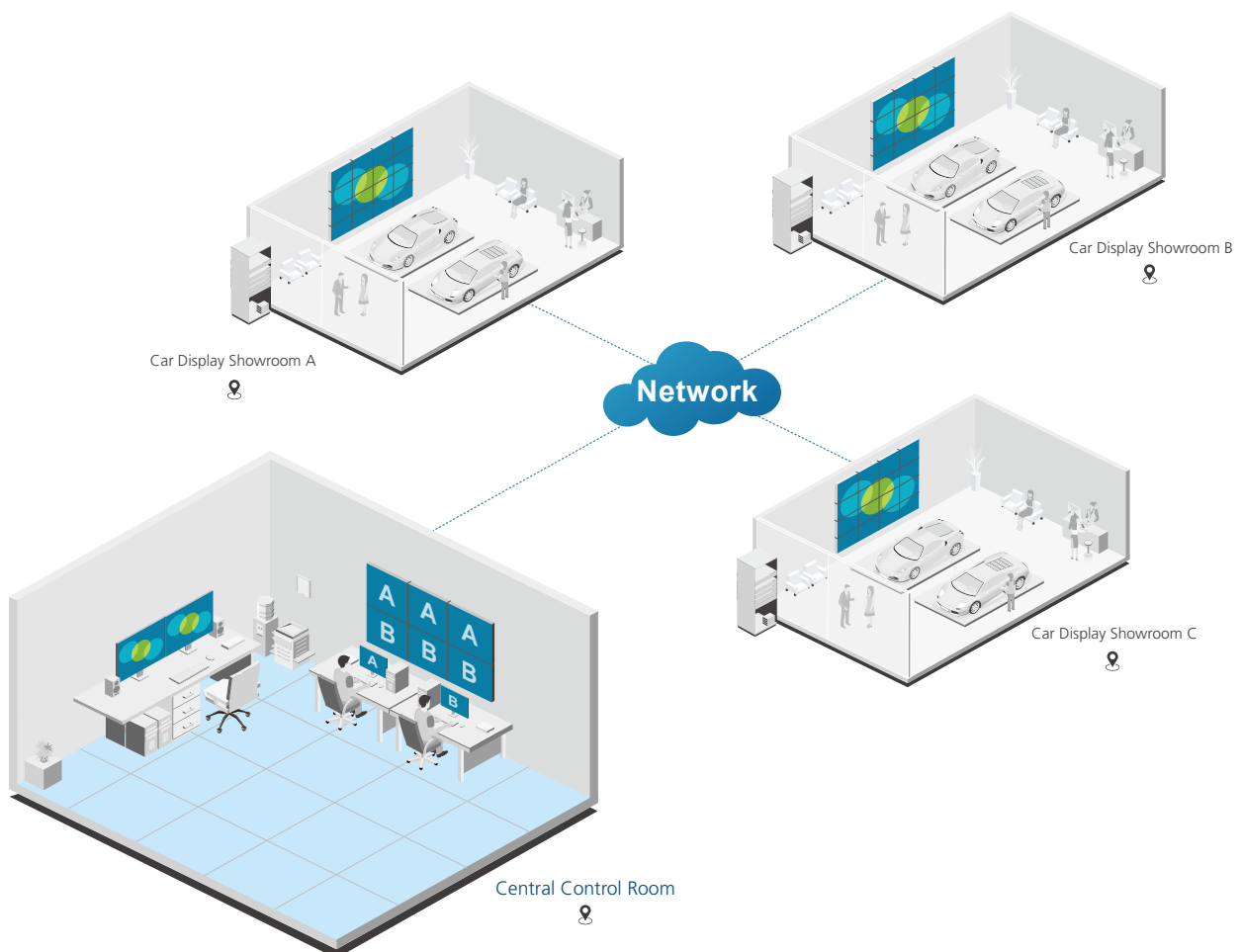


Features

- Centralized management, monitoring, and control for applications where ATEN Ethernet-based pro AV solutions are applied
- Intuitive user interface designed for large-scale AV applications with multiple locations
- Automatic synchronization of device conditions – shows device connection statuses, hardware conditions (fan and temperature), and firmware versions for remote troubleshooting and maintenance
- 5-level location settings including room view and floor view
- Grouping function allows for batch control and firmware upgrades
- Access rights management
- Notifications and system logs for abnormal events
- Supports mainstream web browsers
- Task scheduling

2

Management Platform



Presentation Switch Series

Efficient meetings demand efficient systems. What today's workforce expects is to just walk in, connect, and get straight down to business.

The ATEN Presentation Switch Series is a range of multi-in-one solutions available in a variety of configurations, mixing and matching video matrix switching, audio capabilities, extension, streaming, and analog-to-digital conversion with unique features in one compact enclosure.

The series is designed to simplify AV integration and reduce system device count and operation complexity in commercial environments of any size, such as meeting rooms, boardrooms, classrooms or other presentation settings. All models can be mounted in a rack or lectern, or installed under a table or desk for easy and trouble-free integration.

3

Presentation Switch Series

Specifications at a Glance

Model	VP1920	VP2730
Max Resolutions	HDMI/DP: Up to 4K@60Hz (4:2:0); 4K@30Hz (4:4:4) VGA/Analog: Up to 1920 x 1200@60Hz	HDMI/DP: Up to 1080p@60Hz VGA/Analog: Up to 1920 x 1200@60Hz
HDCP	HDCP 1.4	HDCP 1.4
Video Inputs		
HDMI	6	5
DisplayPort	1	1
VGA	1	1
Component	1	N/A
Composite	1	N/A
Video Outputs		
HDMI	2	2
HDBaseT	N/A	1
Audio Inputs		
Stereo	1	1
Composite/Component	2	N/A
Balance	N/A	1
Microphone	N/A	1
Audio Outputs		
Optical	1	1
Coaxial	1	1
Stereo	2	2
Features		
Keyboard/Mouse PC Control	•	N/A
Streaming In	N/A	•
Streaming Out	N/A	•
Switching	N/A	Ultra Seamless Switching
Scaling	N/A	•
Preview	•	•
Picture in Picture (PIP)	•	•
Multiview (PbP, Quad view)	N/A	•
Auto Switching	•	•
Audio embedding/de-embedding	•	•
Typical Applications	Presentation Meeting Room Training Room Interactive Learning Classroom	Conference Room Boardroom Lecture Hall



VP1000 Core Series

Multi-format core solutions deliver high-quality video and audio switching and conversion. The flagship model is VP1920, which has the following key features:

- **Multi-format AV Switching**

Switching among 6 HDMI and 3 combo inputs (HDMI/VGA, HDMI/DisplayPort, HDMI/Component/Composite) to 2 HDMI outputs and support for Coaxial, Toslink, Stereo audio outputs.

- **USB Control Routing for PCs and Touch Panels**

USB ports integrate PC and touch panel controls with other devices into one system. Independent switching of USB peripheral ports and keyboard/mouse control focus.

- **Selectable Matrix, Mirror and PiP* Modes**

Three different display modes meet the needs of various events or presentation styles.

- **Source Preview**

Quickly identify and switch to your target content. No more guessing which port connects to which content source.

VP2000 Collaborative Series

Collaborative presentation solutions facilitate distance-free content sharing with advanced audio functions. The flagship model is VP2730, with the following key features:

- **Bi-directional Distance-free Streaming**

Go live to stream out HD video or stream in content from a remote site via an intuitive web GUI.

- **Ultra Seamless Switch with Scaler**

ATEN Presentation Switches output continuous video content, perform real-time switching, and ensure stable signal transmissions. They are capable of seamlessly switching between input sources.

- **Built-in Audio Mixer**

Supports dynamic and condenser microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio.

- **Multi-view Flexibility**

Display and switch simultaneously up to six sources in PiP (picture in picture), PbP (picture by picture), quad-view modes, and more.

- **Moderator Mode for Meeting Management**

The meeting moderator can control any output display remotely and discretely without interrupting the meeting flow.

VP2730 7 x 3 Seamless Presentation Matrix Switch with Scaler, Streaming, Audio Mixer, and HDBaseT

PRO



RS-232
Control

IR Remote
Control

EDID

Scaler

Phantom
Power

Streaming

Source
Preview

Seamless
Switch

Auto
Switching

RGB

Features

Seamless Multi-format AV Switching

- Supports multi-format 7 Inputs:
 - 2 combo inputs (HDMI/VGA, HDMI/DisplayPort)
 - 3 HDMI inputs
- 2 HDMI and 1 HDBaseT matrix outputs
- Superior video quality up to 1080p@60Hz (HDMI/DisplayPort)
- Ultra Seamless Switch™ – zero-second switching that provides continuous video streams, real-time switching, and stable signal transmissions
- Scaler – features a video scaling function to convert input resolutions to the optimum display resolutions
- Flexible aspect ratio conversion

1080p Streaming for Distance-free Sharing and Collaboration

- Go Live – meeting moderator can broadcast HD video streams to up to 5 remote locations
- Streaming In – remote locations can stream and share content to the meeting moderator at any distance via the intuitive web GUI
- Streaming Queuing – shares the streamed-in content approved by the meeting moderator one at a time to help manage the meeting flow

Audio Mixer Integration for Advanced Applications

- Audio Mixer – allows mixing of the microphone inputs to any external analog or digital audio output device
- Embed/De-embed Audio – HDMI/DisplayPort audio signals can be extracted to separate digital/analog audio signals; MicLine audio can be embedded to HDMI audio
- Supports multi-format digital/analog audio outputs, including coaxial, TOSLINK, and RCA

Advanced Conferencing Management Features for Collaboration

- Multi-view – displays and switches simultaneously in any variation of full-screen, dual-view, tri-view, quad-view, or PIP modes, with up to six sources displayed simultaneously on one screen
- Moderator Mode – enables the meeting moderator control other displays via host display
- Chat Room – facilitates real-time and precise communication among remote participants
- Screen Capture – captures anything on your screen with a click
- Freeze – freezes the screen for discussion or to control the meeting flow

Streamlined Operation

- Multiple Control Options – flexible control via built-in Web UI, Front Panel, OSD, IR Remote Control, and RS-232
- Auto Switching – automatically detects and switches to a new source as soon as it is connected for time-saving and convenience

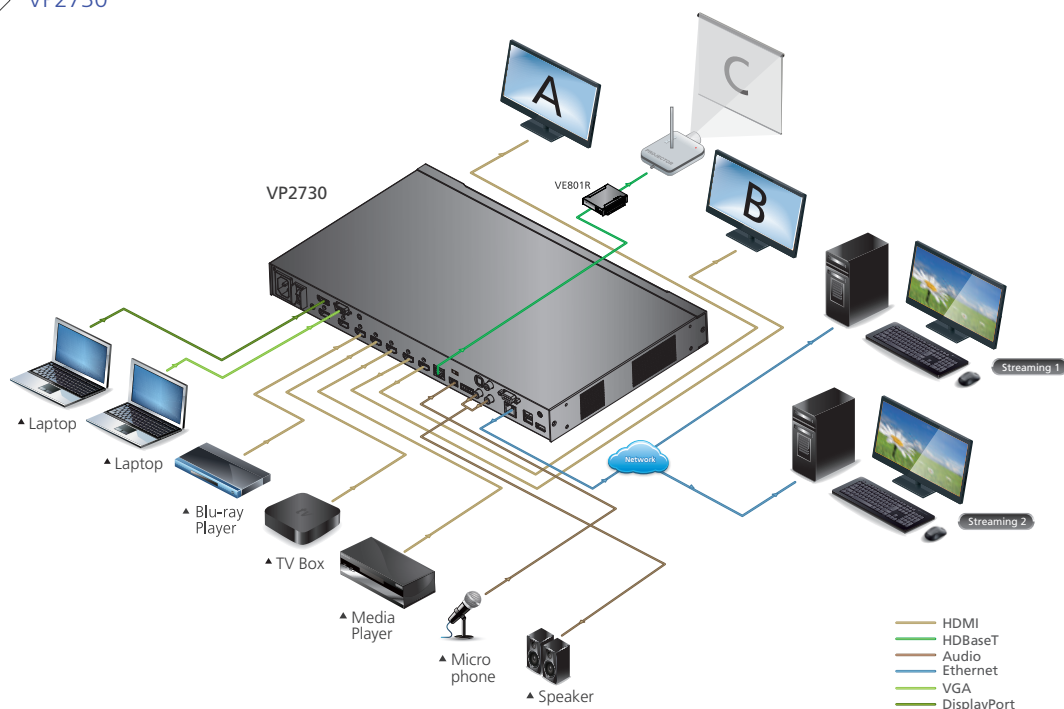
Front



Rear



Setup > VP2730



Specifications

Function	VP2730
Video Input	
Interfaces	5 x HDMI Type A Female (Black) 1 x DP Female (Black) 1 x HDB-15 Female (Blue)
Video Output	
Interfaces	2 x HDMI Type A Female (Black) HDBaseT: 1 x RJ-45 Female (Silver)
Max. Distance	HDMI: Up to 15m HDBaseT: Up to 1080p @ 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat 6)
Video	
Compliance	HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	HDMI/DP: Up to 1080p @ 60Hz VGA/Analog: Up to 1920 x 1200 @ 60Hz
Audio	
Input	Stereo Audio: 1 x Mini Stereo Jack Female (Green) Balance Audio: 1 x Captive Screw Connector, 5-pole Microphone: 1 x Captive Screw Connector, 3-pole
Output	Optical Audio: 1 x Toslink (Black) Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (White/Red)
Connectors	
USB	USB 2.0: 2 x USB Type A Female (White) USB 3.0: 1 x USB Type A Female (Blue)
Control	
RS-232	1 x DB 9 Female (Black)
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
EDID Settings	EDID Mode: ATEN Default / Display A
Power	
Connectors	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	AC110V: 28.5W; AC220V: 27.3W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	3.70 kg (8.15 lb)
Dimensions (L x W x H)	43.24 x 26.28 x 4.40 cm (17.02 x 10.35 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x IR Receiver; 1x IR Remote Control; 2x Terminal Blocks; 4x Foot Pads

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
DisplayPort Cable*	2L-7D02DP (1.8 m)	12-6
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0110G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
HDBaseT Cat 6 Cable	2L-2910	12-1

*Cables with different lengths are available; please refer to 12-5 and 12-6.

VP1920 9 x 2 4K Presentation Matrix Switch **PRO**



3

Presentation Switch Series

Front



Rear



Features

Multi-format AV Switching with Simplicity

- Supports multi-format 9 Inputs and 2 HDMI outputs:
 - 3 combo inputs (HDMI/VGA, HDMI/DisplayPort, HDMI/AV/YPbPr)
 - 3 HDMI inputs
 - 2 HDMI matrix outputs
- VGA port supports universal analog input formats (RGBHV/RGBs/ YCbCr/YPbPr)
- Embed/De-embed Audio – HDMI/DisplayPort audio signals can be extracted to digital/analog audio signals; stereo/composite/component audio can be embedded to digital audio signals

High-definition Video with Optimum Output

- Superior video quality up to 4096 x 2160@60Hz (4:2:0) / 4096 x 2160@30Hz (4:4:4) (HDMI/DP)
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI (3D, Deep Color, 4K); HDCP 1.4 compliant

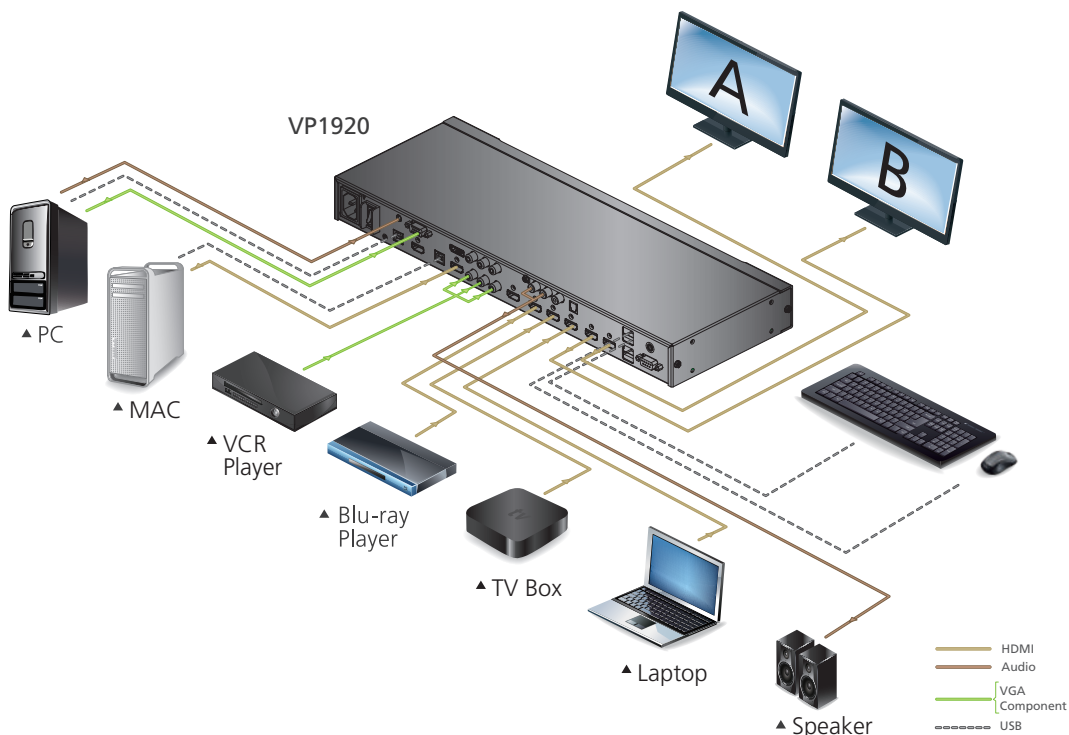
Versatile, Streamlined Operation

- Multiple control methods via front-panel pushbuttons, RS-232, OSD, and IR remote
- Source preview – quickly identify and switch to the target content
- Selectable display modes (Matrix, Mirror, or PIP) for different presentation demands
- Auto switching – automatically detects and switches to a new source as soon as it is connected for time-saving and convenience
- Supports stand-by mode for power saving and fast waking up

Extended Flexibility for USB Peripherals

- USB ports enable keyboard/mouse or touch panel control over the connected computers
- Control focus for keyboard/mouse and USB peripherals can be individually switched to a designated computer source

Setup > VP1920



Specifications

Function	VP1920
Video Input	
Interfaces	6 x HDMI Type A Female (Black) 1 x DP Female (Black) 1 x HDB-15 Female (Blue) 1 x Component (3 x RCA Female, Blue/Green/Red) 1 x Composite (1 x RCA Female, Yellow)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Max. Distance	Up to 15 m
Video	
Compliance	HDMI (3D, Deep Color, 4K); HDMI/DP: HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	HDMI/DP: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) VGA/Analog: Up to 1920 x 1200 @ 60Hz
Audio	
Input	Stereo Audio: 1 x Mini Stereo Jack Female (Green) Composite/Component Audio: 2 x RCA Female (Red/White)
Output	Optical Audio: 1 x Toslink (Black) Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (Red/White)
Connectors	
Computers	2 x USB Type B Female (White)
Console Ports	Keyboard/Mouse: 2 x USB Type A Female (White) Device: 2 x USB Type A Female (White)
Control	
RS-232	1 x DB 9 Female (Black)
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	EDID Mode: Default / Port 1 / Remix
Power	
Connectors	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	AC110V: 7.3W; AC220V: 7.3W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.36 kg (5.20 lb)
Dimensions (L x W x H)	43.72 x 16.36 x 4.40 cm (17.21 x 6.44 x 1.73 in.)
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x IR Receiver; 1x IR Remote Control

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
DisplayPort Cable*	2L-7D02DP (1.8 m)	12-6
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0109G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2

*Cables with different lengths are available; please refer to 12-5 and 12-6.

Modular Matrix Solution Series

- VM1600A / VM3200 - Modular Matrix Switch
- VM7904 - DisplayPort Input Board
- VM7404 - 3G-SDI Input Board
- VM7104 - VGA Input Board

- VM7514 / VM8514 - HDBaseT Input / Output Board
- VM7814 / VM8814 - 4K HDMI Input / Output Board
- VM7804 / VM8804 - HDMI Input / Output Board
- VM7604 / VM8604 - DVI Input / Output Board

The ATEN Modular Matrix Solution Series comprises the VM1600A/VM3200 Modular Matrix Switch in tandem with a range of hot-swappable I/O boards. The solution offers real-time control and advanced access to manage 16/32 video sources and 16/32 displays simultaneously, through modular I/O boards in a single chassis. Empowered by ATEN Seamless Switch™ technology, the VM1600A/VM3200 video matrix switches incorporate a speed-progressive video switching function and a unique scaler that integrates seamlessly with video wall systems. The ATEN Modular Matrix Solution is easily expandable and ideal for large-scale AV applications such as broadcasting stations, traffic and transportation-related control rooms, emergency service centers, and any application that requires customizable, high-speed AV signal routing.

Boasting a sophisticated and intuitive design to deliver the best audio/visual distribution and control, reliability and lowest maintenance costs, the solution also incorporates ATEN's Red Dot Award-winning GUI that can be accessed from anywhere over a network or the internet. Configuring a video wall or digital signage installation has never been easier.



Specifications at a Glance

Combination	Matrix Switch	VM1600A / VM3200						
	Input Board	VM7514	VM7904	VM7814	VM7804	VM7604	VM7104	VM7404
	Output Board	VM8514		VM8814	VM8804	VM8604		
Interface		HDBaseT (RJ-45)	DisplayPort	HDMI	HDMI	DVI	VGA	3G-SDI (BNC)
Max Video Resolution		4K@60Hz (4:2:0)	4K@60Hz (4:2:0)	4K@60Hz (4:2:0)	1920 x 1080	1920 x 1200	1920 x 1200	1920 x 1080
Max Distance	Input	100m	5m	5m	5m	5m	1.8m	SD: 300 m HD: 150 m 3G: 100 m
	Output	100m	N/A	15m	15m	5m	N/A	N/A
Audio		N/A	•	•**	•**	•**	•**	•**
Scaler		VM8514 + VE805R / VE816R***	N/A	VM8814	VM8804	VM8604	N/A	N/A
Video Wall		VM8514 + VE805R / VE816R**	N/A	VM8814	VM8804	VM8604	N/A	N/A
Seamless Switching		VM8514 + VE805R / VE816R***	N/A	VM8814	VM8804	VM8604	N/A	N/A
FrameSync		VM8514 + VE816R***	N/A	VM8814	N/A	N/A	N/A	N/A
Cable Quality Tester		VM8514 + VE816R***	N/A	•	N/A	N/A	N/A	N/A
RS-232 Channel		•	N/A	N/A	N/A	N/A	N/A	N/A
IR Channel		•	N/A	N/A	N/A	N/A	N/A	N/A

Note : * 4K resolutions are only available when the Scaler is disabled. When the Scaler function is implemented, the highest resolution available is 1080p. The Scaler function is enabled by default.

** HDMI audio signal can be extracted as stereo audio. Stereo audio can be embedded into the HDMI audio output.

*** For the VM8514, certain functions are only available when used with the appropriate extenders.



- **Modular Convenience**

The removable front panel, modular interior PCBs, hot swappable I/O board, power, and fan modules make repair and replacement easier than ever, without any interruption to services.

- **Modular Design for Easy Maintenance and Reliability**

The removable front panel, modular interior PCBs, hot swappable I/O board, power, and fan modules make repair and replacement easier than ever. In addition, the redundant power design prevents single points of failure from shutting down the entire system and ensures 24/7 operation.

- **Future-proof Expandability**

Minimal cost and hassle-free expandability with a selection of modular I/O boards, including HDBaseT, DisplayPort, HDMI, DVI, 3G-SDI, and VGA boards that enable easy future expansion.

- **4K Seamless Switching**

ATEN's unique Seamless Switch™ technology features close-to-zero second video switching from any input to any output at up to 4K without any black screens.

- **Tear-free Video Walls**

ATEN's FrameSync Technology prevents screen tearing by synchronizing the scaler frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls.

- **Scaling for Optimized Output**

A unique scaler utilizes ATEN FPGA technology to unify various video input signals and render optimized output resolutions on displays with uncompromised precision.

- **Award-winning Web GUI**

Through an intuitive web interface, video sources can be previewed in real-time and video walls can be easily set up. A calendar-based scheduling function allows you to queue and play connection profiles via a calendar view for a set period of time, reducing related human operation costs.

- **HDBaseT™ Technology**

HDBaseT™ is a connectivity standard that combines uncompressed Ultra HD video, audio, 100Mb Ethernet, power over cable and control signals through a single Cat 6/6a cable. HDBaseT™ is optimized for professional AV installations and provides a simple and cost-effective solution for transmitting Ultra HD signals up to 100 meters.

- **Audio Separation**

The modular matrix switch provides the capability to separate audio signals from their corresponding video signals, including both HDMI-extracted audio and embedded stereo audio. This allows the audio and video signals from one source device to be switched and sent out to different destinations.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.

VM3200 32 x 32 Modular Matrix Switch



reddot award 2015
winner interface design



TAIWAN
EXCELLENCE
2018



RS-232/485/422
Control

EDID

FPGA
FPGA
Design

Streaming

Front



Rear



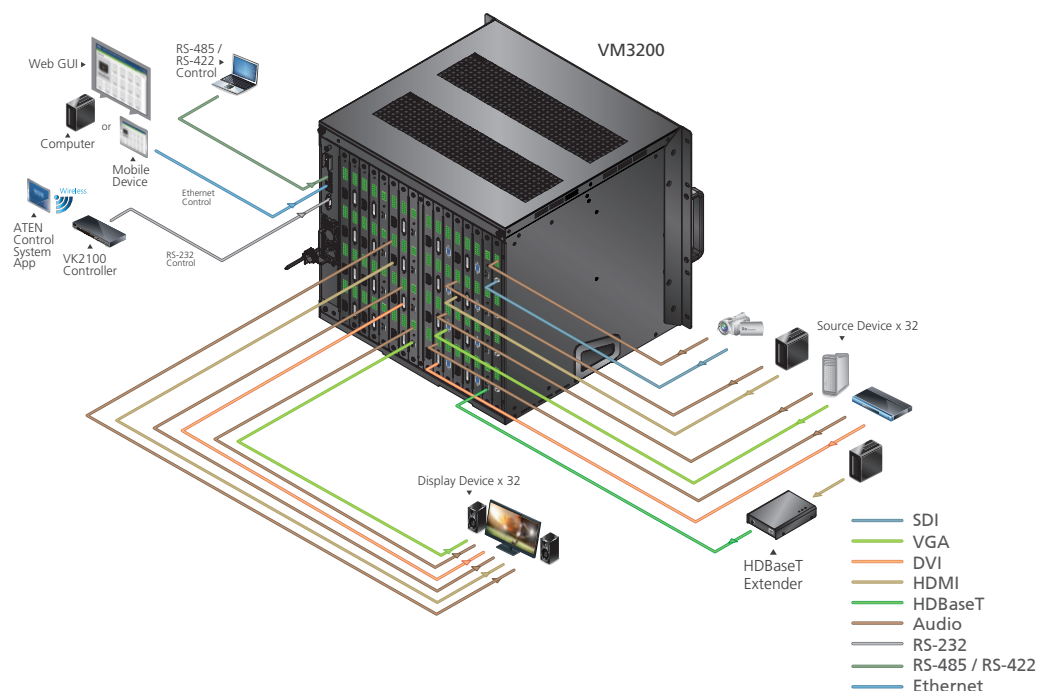
*The I/O boards need to be purchased separately.

Features

- 32 x 32 I/O connections via 8 x 8 I/O slots for modular matrix boards
- Supports redundant power module for higher reliability
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232/RS-485/RS-422 and Ethernet connections
- **4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)*
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- **Audio-enabled** – HDMI audio can be extracted and stereo audio can be embedded
- **Live Streaming** – supports single source live streaming via web GUI for convenient evaluation of display output
- **Content and Layout Preview** – displays thumbnails of source media in web GUI, simplifying profile configuration
- **Calendar-based scheduling** – calendar-based scheduling
- Hot-swappable design for I/O boards, fan module, and power supplies
- Rack-mountable (9U design)

Note: *The availability of these features depends on which I/O board is inserted.

Setup > VM3200 + VM7814 / VM8814 + VM7514 / VM8514
VM7604 / VM8604 + VM7104 + VM7404



Specifications

Function	VM3200
Board Input	8 x Slots
Board Output	8 x Slots
Video	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8 Gbps per Lane)
Audio	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A
Consumption	AC110V: 800W; AC220V: 800W *A power module can be purchased for power redundancy.
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	18.20 kg (40.09 lb)
Dimensions (L x W x H)	48.20 x 47.19 x 39.90 cm (18.98 x 18.58 x 15.71 in.)
Rack Height (U Spaces)	9U
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x Terminal Block connector

Required I/O Board

Description	Part No. / Spec.	Page No.
HDBaseT Input / Output Board	VM7514 / VM8514	4-7
4K DisplayPort Input Board	VM7904	4-9
4K HDMI Input / Output Board	VM7814 / VM8814	4-10
HDMI Input / Output Board	VM7804 / VM8804	4-11
DVI Input / Output Board	VM7604 / VM8604	4-12
3G-SDI Input Board	VM7404	4-13
VGA Input Board	VM7104	4-14

Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-034G (Short)	41 – 72 cm
2X-035G (Long)	68 – 108 cm

Optional Accessories

Video Matrix Power Module	VM-PWR800	Video Matrix Fan Module	VM-FAN556
Input voltage	100 – 240 VAC	Airflow	55.2 cfm
Power Capacity	Max. Load 800W	Operating Voltage	10.2 – 12 VDC
Operating Temperature	0 - 40 °C	Operating Temperature	-10 – 60 °C



reddot award 2015
winner interface design

VM1600A 16 x 16 Modular Matrix Switch

RS-232/485/422
Control

EDID

FPGA
Design

Front



Rear



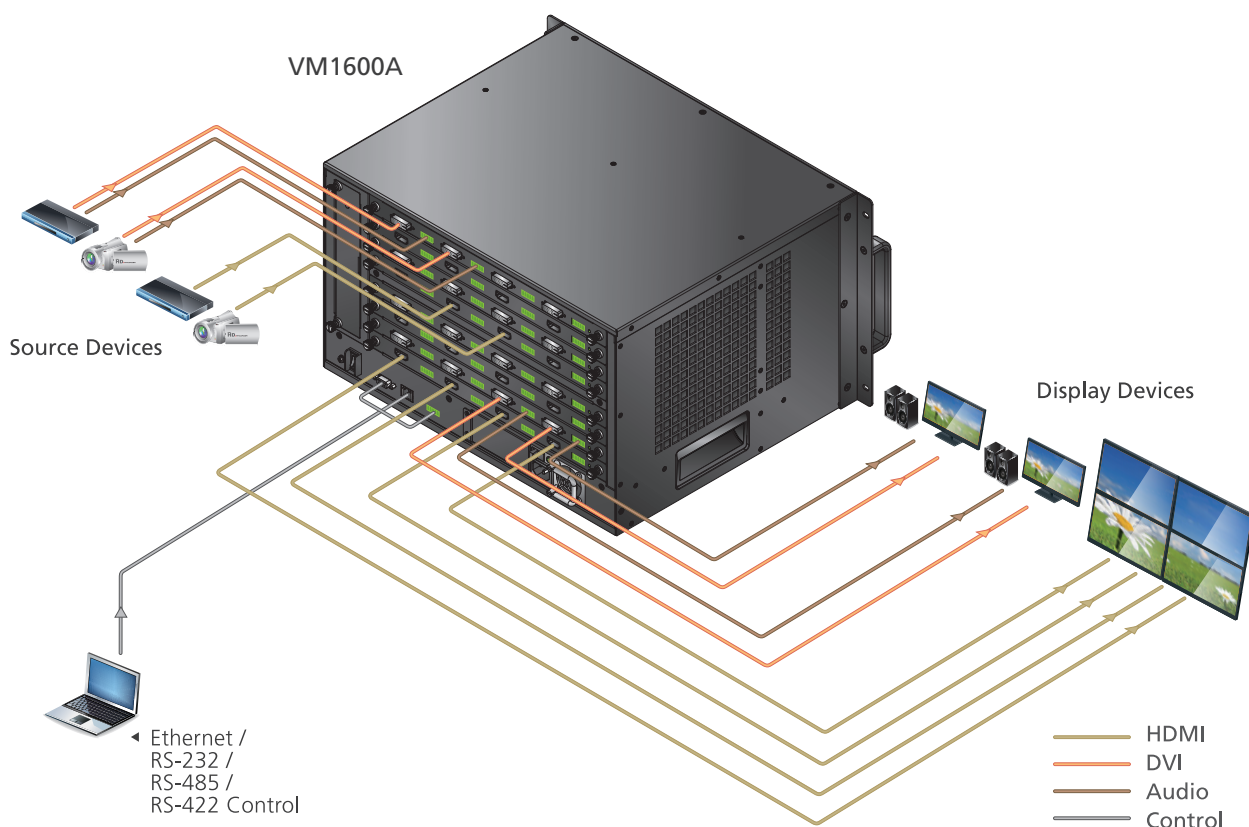
*The I/O boards need to be purchased separately.

Features

- 16 x 16 I/O connections via 4 x 4 I/O slots for modular matrix boards
- Supports redundant power module for higher reliability
- Multiple Control Methods – system management via front-panel pushbuttons, RS-232/RS-485/RS-422, and Ethernet connections
- **4K resolutions** – up to UHD (3840 x 2160) and DCI (4096 x 2160) with refresh rates of 30 Hz (4:4:4) and 60 Hz (4:2:0)*
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- **Audio-enabled** – HDMI audio can be extracted and stereo audio can be embedded
- Hot-swappable design for easy integration of I/O boards, fan module, and power supplies
- Rack-mountable (6U design)

Note: *The availability of these features depends on which I/O board is inserted.

Setup > VM1600A + VM7804 / VM8804 + VM7604 / VM8604



Specifications

Function	VM1600A
Board Input	4 x Slots
Board Output	4 x Slots
Video	
Interfaces	Depends on which I/O board is inserted
Max. Data Rate	15.2 Gbps (3.8 Gbps per lane)
Audio	
Input	Depends on which Input board is inserted
Output	Depends on which Output board is inserted
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate:19200, Data Bits:8, Stop Bits:1, Parity: No, Flow Control: No
RS-485/RS-422	Connector: 1 x Captive Screw Connector, 5 Pole
Ethernet	Connector: 1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 3/6 A
Consumption	AC110V: 460W; AC220V: 460W *A power module can be purchased for power redundancy.
Fan	
	Airflow: 55.2 cfm Operating Voltage: 10.2 - 12VDC Operating Temp: -10 - 60°C
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	15.11 kg (33.28 lb)
Dimensions (L x W x H)	48.20 x 46.66 x 26.59 cm (18.98 x 18.37 x 10.47 in.)
Rack Height (U Spaces)	6U
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x Terminal Block connector

Required I/O Board

Description	Part No. / Spec.	Page No.
HDBaseT Input / Output Board	VM7514 / VM8514	4-7
4K DisplayPort Input Board	VM7904	4-9
4K HDMI Input / Output Board	VM7814 / VM8814	4-10
HDMI Input / Output Board	VM7804 / VM8804	4-11
DVI Input / Output Board	VM7604 / VM8604	4-12
3G-SDI Input Board	VM7404	4-13
VGA Input Board	VM7104	4-14

Rack Mount Kits (Optional)

Easy Installation Rack Mount Kit	Rack Depth
2X-026G (Short)	42 – 70 cm
2X-027G (Long)	68 – 105 cm

Optional Accessories

VM1600A Power Module	VM-PWR460
Input voltage	100 – 240 VAC
Power Capacity	Max. Load 460W
Operating Temperature	0 - 40 °C

VM1600A Fan Module	VM-FAN554
Airflow	55.2 cfm
Operating Voltage	10.2 – 12 VDC
Operating Temperature	-10 – 60 °C

VM7514 4-Port HDBaseT Input Board

VM8514 4-Port HDBaseT Output Board



VM7514



VM8514



Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- **HDBaseT Connectivity** – extends 4 HDBaseT connections up to 100m via single Cat 6/6a / ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmissions using HDBaseT technology
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8514)*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8514)*
- **Cable Quality Tester** – examines the HDMI cable quality (VM8514)*
- **Bi-directional RS-232 channel** – transmits signals over Cat 6/6a cable to control a display or other devices
- **Bi-directional IR channel** – full range IR transmission (30~56 KHz) one direction at a time

Note: *For the VM8514, the Seamless Switch™ and video wall functions are only available when used with the VE805R and VE816R, and the Cable Quality Tester is only available when used with the VE816R.

VM7514 Compatible Table

Compatible Transmitter	Max. Distance	IR Channel	RS-232 Channel	4K
VE2812T	100m ^a	•	•	•
VE1812T	100m ^a	•	•	•
VE801T	70m ^b	N/A	N/A	•
VE802T	70m ^b	•	•	•
VE811T	100m ^a	N/A	N/A	•
VE812T	100m ^a	N/A	N/A	•
VE814AT	100m ^a	•	•	•
VE601T (DVI)	70m ^b	N/A	N/A	N/A
VE901T (DisplayPort)	70m ^c	N/A	N/A	•

VM8514 Compatible Table

Compatible Receiver	Max. Distance	IR Channel	RS-232 Channel	4K	Seamless Switch™	Video Wall	FrameSync
VE1812R	100m ^a	•	•	•	N/A	N/A	N/A
VE801R	70m ^b	N/A	N/A	•	N/A	N/A	N/A
VE802R	70m ^b	•	•	•	N/A	N/A	N/A
VE811R	100m ^a	N/A	N/A	•	N/A	N/A	N/A
VE805R (with Scaler)	70m ^d	•	•	N/A	•	•	N/A
VE812R	100m ^a	N/A	N/A	•	N/A	N/A	N/A
VE814AR	100m ^a	•	•	•	N/A	N/A	N/A
VE816R (with Scaler)	100m ^a	•	•	•	•	•	•
VE601R (DVI)	70m ^c	N/A	N/A	N/A	N/A	N/A	N/A
VE901R (DisplayPort)	70m ^b	N/A	N/A	•	N/A	N/A	N/A

a. Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a)
b. Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
c. Up to 1920x1200@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
d. Up to 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)

Specifications

Function	VM7514 / VM8514
Video Input	
Interfaces	VM7514: 4 x RJ-45 Female (Silver)
Impedance	100 Ω
Video Output	
Interfaces	VM8514: 4 x RJ-45 Female (Silver)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	VM7514: HDBaseT, HDCP 1.4 compatible VM8514: HDBaseT, HDCP 2.2 compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	100 m (Cat 6a)*
Control Channel	
RS-232	4 x Captive Screw Connectors, 3 pole
IR	4 x Mini Stereo Jack Female (Black)
Power	
Consumption	VM7514: 24.5W; VM8514: 12.2W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7514: 0.64 kg (1.41 lb); VM8514: 0.97 kg (2.14 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Block Connectors; 1x IR Transmitter; 1x IR Receiver

Note: *We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
HDBaseT Receiver	VE1812R, VE801R, VE802R, VE805R, VE811R, VE812R, VE814AR, VE816R, VE601R, VE901R	9-20, 9-22, 9-22, 9-14, 9-19, 9-21, 9-17, 9-13, 9-24, 9-23
HDBaseT Transmitter	VE2812T, VE1812T, VE801T, VE802T, VE811T, VE812T, VE814AT, VE601T, VE901T	9-15, 9-20, 9-22, 9-22, 9-19, 9-21, 9-17, 9-24, 9-23

VM7904 4-Port 4K DisplayPort Input Board



EDID

Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Connects up to 4 DisplayPort inputs to up to 16 (VM1600A) or 32 (VM3200) displays
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
- Audio-enabled – stereo audio can be routed independently or embedded for HDMI output
- **EDID Expert** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolutions across different screens
- Support DP1.1 with data rate up to 10.8 Gbps (2.7 Gbps per lane)
- HDCP 1.4/2.2 compatible
- Hot-swappable design for easy integration and maintenance



Specifications

Function	VM7904
Video Input	
Interfaces	4 x DisplayPort Female (Black)
Impedance	100 Ω
Max. Distance	Up to 3m
Video	
Max. Data Rate	10.8 Gbps (2.7 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDCP Compatible
Max. Resolution	4096x2160@30Hz (4:4:4); 3840x2160@30Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole (Green) *Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	7.18W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.55 kg (1.21 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Blocks

Optional Accessories

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP	12-6

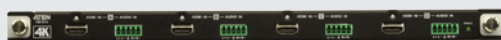
*Cables with different lengths are available; please refer to 12-6.

VM7814 4-Port 4K HDMI Input Board

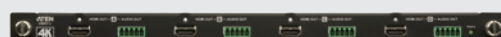
VM8814 4-Port 4K HDMI Output Board with Scaler



VM7814



VM8814



Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080); 4K2K@60 (4:2:0)
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded
- **Scaler** – features a 4K video scaling function to convert input resolutions to the optimum display resolutions (VM8814)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8814)*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8814)*
- HDMI (3D, Deep Color); HDCP 2.2 compatible
- **Cable Quality Tester** – examines the HDMI cable quality
- Consumer Electronics Control (CEC) support
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate (VM8814)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

Specifications

Function	VM7814 / VM8814
Video Input	
Interfaces	VM7814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	VM8814: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Input	4 x Captive Screw Connector, 5 Pole
Output	*Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	VM7814: 4.45W; VM8814: 20W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	VM7814: 0.56 kg (1.23 lb); VM8814: 0.65 kg (1.43 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Blocks; 4x HDMI LockPro

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VM7804 4-Port HDMI Input Board

VM8804 4-Port HDMI Output Board with Scaler



VM7804



VM8804



Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i and 1080p (1920 x 1080)
- Audio-enabled – HDMI audio can be extracted and stereo audio can be embedded
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8804)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions (VM8804)*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8804)*
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

Specifications

Function	VM7804 / VM8804
Video Input	
Interfaces	VM7804: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	VM8804: 4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1920 x 1080
Audio	
Input	4 x Captive Screw Connector, 5 Pole
Output	*Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	VM7804: 7W; VM8804: 23.13W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.58 kg (1.28 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Blocks

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VM7604 4-Port DVI Input Board

VM8604 4-Port DVI Output Board with Scaler



VM7604



VM8604



Features

- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions (VM8604)
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions (VM8604)
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI (VM8604)
- HDCP 1.4 compatible
- **EDID Expert** – selects optimum EDID settings for smooth power-up and the highest quality display
- Audio-enabled – HDMI audio (VM7804/VM7814) can be extracted to VM8604; VM7604's stereo audio can be embedded to HDMI audio (VM8804/VM8814)

Specifications

Function	VM7604 / VM8604
Video Input	
Interfaces	VM7604: 4 x DVI-D Female (White)
Impedance	100 Ω
Video Output	
Interfaces	VM8604: 4 x DVI-D Female (White)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1200
Max. Distance	5 m
Audio	
Input	4 x Captive Screw Connector, 5 Pole
Output	*Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	VM7604: 10.62W; VM8604: 20.10W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.55 kg (1.21 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Block Connectors

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Optional Accessories

Description	Part No. / Spec.	Page No.
DVI-D Cable*	2L-7D03DD (3 m)	12-6

*Cables with different lengths are available; please refer to 12-6.

VM7404 4-Port 3G-SDI Input Board



Features

- Connects up to 4 SDI inputs
- Compatible with the VM1600A / VM3200; mix and match with modular I/O boards of any type for optimum flexibility
- Support SD-SDI, HD-SDI and 3G-SDI formats
- Audio-enabled – stereo audio can be embedded to HDMI audio (VM8804/VM8814)

Note: When used with output boards with scaler, Seamless Switch™, scaler and video wall functions can be activated.

Specifications

Function	VM7404
Video Input	
Interfaces	4 x BNC Female
Impedance	75 Ω
Video	
Supported Resolutions	PAL/50 PAL and NTSC/59.94 720p 25, 29.97, 30, 50, 59.94, 60 1080i 50, 59.94, 60 1080PsF 25, 29.97, 30 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
Max. Data Rate	2.97 Gpbs
Max. Distance	100m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
SDI Formats	3G-SDI, SMPTE-259, 292, 424, 425 Level A & B-DL
Audio Inputs	
Interfaces	4 x Captive Screw Connectors, 5 pole * Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	16.0 W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Weight	0.60 kg (1.32 lb)
Housing	Metal
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Block Connectors

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

VM7104 4-Port VGA Input Board



Features

- Connects up to 4 VGA or Component inputs
- Compatible with the VM1600A / VM3200 ; mix and match with modular I/O boards of any type for optimum flexibility
- Supports RGBHV / RGBS / YPbPr / YCbCr input signals
- Audio-enabled – stereo audio can be embedded to HDMI audio (VM8804/VM8814)

Specifications

Function	VM7104
Video Input	
Interfaces	4 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1200
Max. Distance	1.8 m
Audio Inputs	
Interfaces	4 x Captive Screw Connectors, 5 pole * Audio signal type: stereo, balanced/unbalanced.
Power	
Consumption	7.1 W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.56 kg (1.23 lb)
Dimensions (L x W x H)	35.20 x 23.80 x 2.33 cm (13.86 x 9.37 x 0.92 in.)
Carton Lot	2 pcs
Included Accessories	4x Terminal Block Connectors

Note: *Balanced audio maximum input/output level: 0.5 Vrms (-6.02dBV@600 ohm);
Unbalanced audio maximum input/output level: 1Vrms (0dBV@600 ohm).

Media Distribution Solution Series

ATEN's Media Distribution Solutions (MDS) deliver up to 4K UHD video content over HDBaseT or standard Cat 5e/6 cables to multiple displays from a single input source. There are three solutions available: HDBaseT, HDMI Standard, and VGA Standard.

Flexible and scalable, these solutions give you the freedom to set up any kind of high-quality video display customized for various applications from retail media to public information systems.



5

Media Distribution Solution Series

Specifications at a Glance

Solution		HDBaseT*			HDMI Standard	
Combination	Splitter	VS1814T / VS1818T			VS1804T / VS1808T	
	Repeater					VB802**
	Receiver	VE811R	VE812R	VE801R	VE800AR	VE800AR
AV Output (Splitter)		4 / 8			4 / 8	
Max. Resolution / Distance		4K@100m	4K@100m	4K@40m	1080p@40m	1080p@300m
Audio		• (HDMI)			• (HDMI)	
Picture Adjustment		Auto			EQ Switch	

Solution		VGA Standard		
Combination	Splitter	VS1204T / VS1208T		
	Receiver	VE172R	VE170R	VE170RQ
AV Output (Splitter)		4 / 8		
Max. Resolution / Distance		1280 x 1024 @150m	1024 x 768@300m	1280 x 1024@300m
Audio		• (Mono)		
Picture Adjustment		Knob		

*Ensure high quality maximum distance video transmission with ATEN HDBaseT Cat6 Cable, 2L-2910.

** Cascade VB802 up to five levels to achieve 1080p@300m performance.



- **Single Source to Multiple Displays**

These devices take the input from a single AV source and send it to multiple destinations, so that several target devices can reproduce the same video content simultaneously. You can cascade these devices to three levels to achieve even greater media coverage with your installation.

- **Superior Video Quality**

Outstanding video output is achieved through the incorporation of several features – including picture adjustment, EDID mode selection, and ATEN's patented Deskew Technology that automatically corrects display errors that can occur when video is transmitted over long distances. The result is clear, sharp, and optimized video in real-time.

- **HDBaseT™ Technology**

HDBaseT™ support allows for a more economical way to send high-quality HDMI content over a Cat5e/6 cable to multiple displays over long distances from a single input source.

- **Convenient Local Management**

Convenient monitoring of the video being sent to each display is achieved through support for local AV output. If a problem occurs, administrators can take steps to remedy the situation in a timely manner.

- **Control System Integration**

The built-in RS-232 serial port allows you to effortlessly integrate your own control system and customize the control process according to your needs. Serial RS-232 support also gives you the ability to integrate serial connectivity devices – such as barcode scanners, POS terminals, and kiosk touch screens – as part of the installation.

Note: 1.The features highlighted above are not available on all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.

Specifications

Function	VS1814T	VS1818T
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black) - Local Output 4 x RJ-45 Female	1 x HDMI Type A Female (Black) - Local Output 8 x RJ-45 Female
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC) HDBaseT Compatible	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC) HDBaseT Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) (Depends on connected receiver)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) (Depends on connected receiver)
Max. Distance	Up to 100 m (Depends on connected receiver)	Up to 100 m (Depends on connected receiver)
Audio		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Serial Control Pin Configurations: Pin2 = Tx, Pin 3=Rx, Pin 5= Gnd Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default / Port 1 / Auto / Learn	EDID Mode: Default / Port 1 / Auto / Learn
Connectors		
Power	1 x 3-Prong AC Socket (Black)	1 x 3-Prong AC Socket (Black)
Consumption	AC110V: 18.2W; AC220V: 18.2W	AC110V: 31.7W; AC220V: 31.7W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Power Consumption	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	3.47 kg (7.64 lb)	3.58 kg (7.89 lb)
Dimensions (L x W x H)	43.24 x 26.11 x 4.40 cm (17.02 x 10.28 x 1.73 in.)	43.72 x 26.11 x 4.40 cm (17.21 x 10.28 x 1.73 in.)
Carton Lot	1 pcs	1 pcs
Included Accessories	1x Power Cord; 1x Mounting Kit	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
HDMI HDBaseT-Lite Receiver	VE801R	5-7
HDMI HDBaseT-Standard Receiver	VE812R	5-6
HDMI HDBaseT Receiver	VE811R	5-5

*Cables with different lengths are available; please refer to 12-5.

VE811R HDMI HDBaseT Receiver (4K@100m)(HDBaseT Class A) 100 m PRO



Features

- **HDBaseT Connectivity** – extends an HDMI connection up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Plug-and-play
- Rack-mountable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat5e/6/2L-2910 at resolutions up to 1080p

Specifications

Function	VE811R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Unit To Unit	1 x RJ-45 Female
Firmware Upgrade	1 x Mini Stereo Jack Female (Black)
Power	1 x DC Jack (Black) with locking
Switches	
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Power Consumption	
	DC5V: 3.84W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.17 kg (0.37 lb)
Dimensions (L x W x H) with bracket	8.64 x 7.30 x 2.47 cm (3.40 x 2.87 x 0.97 in.)
Dimensions (L x W x H) without bracket	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)
Carton Lot	
	5 pcs
Included Accessories	
	1 x Power Adapter

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VE812R HDMI HDBaseT Receiver (4K@100m) (HDBaseT Class A) 100 m PRO



Front



Rear



Features

- **HDBaseT Connectivity** – extends an HDMI output over a long distance via single 5e/6/6a or ATEN 2L-2910 Cat 6 Cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

Specifications

Function	VE812R
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5.3V: 5.06W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.41 kg (0.9 lb)
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
Carton Lot	5 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VE801R HDMI HDBaseT-Lite Receiver (4K@40m)(HDBaseT Class B) 70 m PRO



Features

- **HDBaseT Connectivity** – extends an HDMI output over a long distance via single 5e/6/6a or ATEN 2L-2910 Cat 6 Cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology

Specifications

Function	VE801R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Output	1 x HDMI Type A Female (Black)
Power	
Connectors	1 x DC Jack (Black) with locking
Consumption	DC5V: 4.24W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.25 kg (0.55 lb)
Dimensions (L x W x H) with bracket	9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	10 pcs
Included Accessories	1 x Power Adapter

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VS1804T / VS1808T 4/8-Port HDMI Cat 5 Splitter

PRO



Front

VS1804T



VS1808T

Rear

VS1804T



VS1808T

Features

- Connects 1 HDMI input to 4/8 HDMI outputs via single Cat 5e cable*
- System management via RS-232 connection
- A local HDMI port to connect an extra HDMI display
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Rack-mountable

*If you need to use EDID Bypass and / or HDCP authentication, connect another Cat 5e cable between the VS1804T/1808T and VE800AR.

Specifications

Function	VS1804T	VS1808T
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black) - Local Output 4 x RJ-45 Female	1 x HDMI Type A Female (Black) - Local Output 8 x RJ-45 Female
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color); HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p (Depends on connected receiver)	Up to 1080p (Depends on connected receiver)
Max. Distance	Up to 60 m (Depends on connected receiver)	Up to 60 m (Depends on connected receiver)
Audio		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default / Port 1 / Learn	EDID Mode: Default / Port 1 / Learn
Connectors		
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Power Consumption	DC5.3V:5.2W	DC5.3V:7.7W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	2.10 kg (4.63 lb)	2.15 kg (4.74 lb)
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	3 pcs	3 pcs
Included Accessories	1 x Power Adapter, 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
HDMI Repeater	VB802	5-9
HDMI Receiver	VE800AR	5-10

*Cables with different lengths are available; please refer to 12-5.

VB802 HDMI Cat 5 Repeater (1080p@40m) 60 m PRO



Front



Rear



Features

- Extends HDMI signals via two Cat 5e cables
- A local HDMI port to connect an extra HDMI display
- Supports 8-segment equalization adjustment for optimum display quality
- Cascadable to 5 levels*
- Firmware upgradable
- Rack-mountable

Note: *Signal quality depends on cable. It is recommended you use STP Cat 5e cable or ATEN low skew cable.

Specifications

Function	VB802
Video Output	
Interfaces	1 x HDMI Type A Female (Black) 2 x RJ-45 Female
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	DC5V:12.28W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.25 kg (0.55 lb)
Dimensions (L x W x H)	12.30 x 9.04 x 2.26 cm (4.84 x 3.56 x 0.89 in.)
Carton Lot	20 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available; please refer to 12-5.

VE800AR HDMI Cat 5 Receiver (1080p@40m) 60 m PRO



Front



Rear



Features

- Extends an HDMI output via single Cat 5e cable*
- Supports 8-segment equalization adjustment for optimum display quality
- Rack-mountable

Note: *A second Cat 5e cable is required if EDID Bypass and / or HDCP authentication needs to be enabled.

Specifications

Function	VE800AR
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m
Audio	
Output	1 x HDMI Type A Female (Black)
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	
	DC5V: 0.608W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.50 x 2.30 cm (3.54 x 2.17 x 0.91 in.)
Carton Lot	
	5 pcs
Included Accessories	
	1 x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available; please refer to 12-5.

VS1204T / VS1208T 4/8-Port VGA/Audio Cat 5 Splitter **PRO**



Front VS1204T



VS1208T

Rear



VS1208T

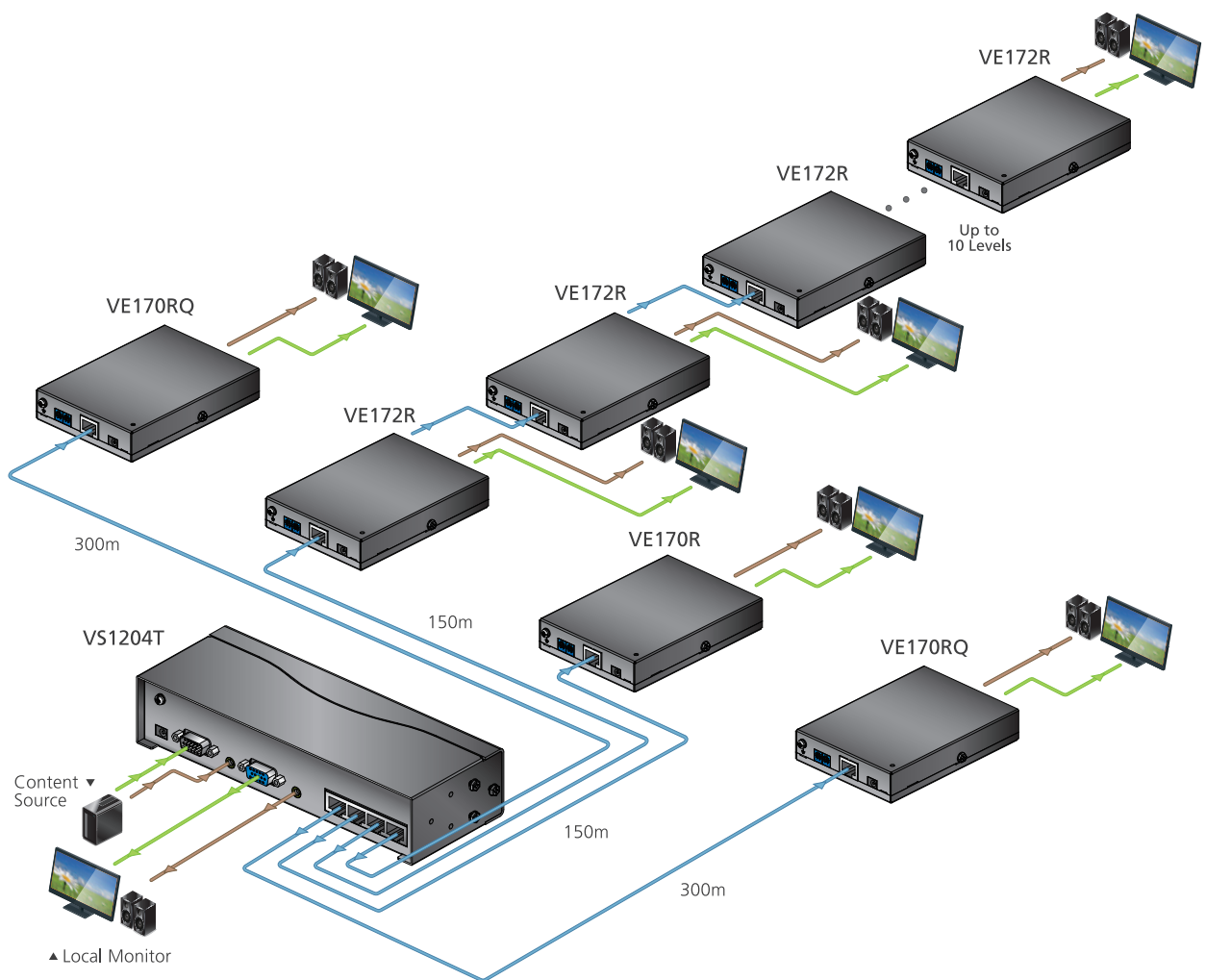


Features

- Connects 1 VGA input to 4/8 VGA outputs via Cat 5e cables
- A local VGA port to connect an extra VGA display
- Rack-mountable

5

Setup > VS1204T + VE172R + VE170R + VE170RQ



— Cat 5e Cable
— VGA
— Audio

Specifications

Function	VS1204T	VS1208T
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue) - Local Output 4 x RJ-45 Female	1 x HDB-15 Female (Blue) - Local Output 8 x RJ-45 Female
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	225 MHz	225 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@60Hz@150m; 1280 x 1024@60Hz@300m	Up to 1920 x 1200@60Hz@150m; 1280 x 1024@60Hz@300m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Connectors		
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Power Consumption	DC5.3V:3.55W	DC5.3V:7.04W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.59 kg (1.3 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA / Audio Cable	2L-2402A (2 m)	12-6
VGA EDID Emulator	2A-130G	10-19
A/V Over Cat 5 Receiver with Cascade	VE172R	5-13
A/V Over Cat 5 Receiver	VE170R / VE170RQ	5-14

VE172R VGA/Audio Cat 5 Receiver with Cascade (1280 x 1024@150m) 150 m



Front



Rear



Features

- Connects a transmitter and a receiver via a Cat 5e cable
- Cascadable up to 10 levels*
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

Note: * Signal quality depends on cable. It is recommended you use STP Cat 5e cables or ATEN low skew cable.

Specifications

Function	VE172R
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m
Audio	
Output	1 x Mini Stereo Jack Female (Green)
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	DC5.3V: 2.29W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs
Included Accessories	1 x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA EDID Emulator	2A-130G	10-19

VE170R VGA/Audio Cat 5 Receiver (1024 x 768@300m) **300 m** **PRO** **VE170RQ** VGA/Audio Cat 5 Receiver with Deskew (1280 x 1024@300m)



(VE170RQ)

Front



Rear



VE170R



VE170RQ

Features

- Connects a transmitter and a receiver via Cat 5e cable
- **Deskew** (VE170RQ) – automatically synchronizes the time delay of RGB signals to compensate for distance
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain or Video Compensation tuners
- Rack-mountable

Specifications

Function	VE170R	VE170RQ
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1600 x 1200@150m; 1024 x 768@300m	Up to 1920 x 1200@150m; 1280 x 1024@300m
Audio		
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Connectors		
Power	1 x DC Jack (Black)	1 x DC Jack (Black)
Power Consumption		
	DC5.3V: 3.32W	DC5.3V: 5.24W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.24 kg (0.53 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot		
	5 pcs	5 pcs
Included Accessories		
	1 x Power Adapter; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA EDID Emulator	2A-130G	10-19

Video Matrix Switches

ATEN video matrix switches route and amplify AV signals from multiple sources to multiple destinations, allowing you to extend your installation up to 70m while maintaining excellent video quality. Front panel pushbuttons allow you to select the video input to video output connections. They can also be cascaded with ATEN video splitters for even more displays. ATEN video matrix switches are ideal for applications that require information from multiple source devices to be delivered to multiple screens and/or projectors – in locations such as corporates or service centers.



6

- **Seamless Switch™ Technology**

ATEN Seamless Switch™ technology features instantaneous video switching to deliver the highest quality video powered by an exclusive seamless engine implemented at each output port. The Video Matrix Switches have a built-in scaler with an FPGA design that can unify video formats and provide continuous video streams, real-time switching and stable signal transmission.

- **FPGA Design Benefits**

Implementation of the FPGA design allows TMDS signals to be rearranged when transmitting high-speed data. This is used by digital video interfaces, as well as other digital communication interfaces. Consequently, this benefit leads to smoother digital signal transmission over longer distances.

- **Effortless Control of Multiple Sources to Multiple Outputs**

Video Matrix Switches offer an easy and affordable way to route multiple audio/video sources to multiple audio/video targets (speakers and displays). Each input can be directed to any or all outputs, giving you ultimate flexibility and control in any multimedia installation.

- **Outstanding Multimedia Support**

In addition to high-quality video, the integrated audio component delivers an outstanding AVV experience when working with popular multimedia applications.

- **Tear-free Video Walls**

ATEN's FrameSync Technology prevents screen tearing by synchronizing the scaler frame rates, guaranteeing smooth video for high-motion elements and ensuring stunning tear-free video walls.

- **Perfect Video-Wall Integration with Scaler**

The Video Matrix Switches are equipped with video wall and scaler functionalities that ensure all input sources rendered at optimum output resolutions on displays with uncompromised precision. The scaler also guarantees that all video content is delivered across all screens with no delays or signal loss. The video wall functionality allows you to customize display layouts using the intuitive web GUI which has won the Red Dot Interface Design award.

Note: 1. The features highlighted above are not available in all products. Please refer to each product page for more details.

2. Product information is subject to change without prior notice.

Specifications at a Glance

Interface	HDBaseT / HDMI	HDMI			
Model	VM3404H VM3909H	VM6404H	VM6809H	VM51616H	VM5404H VM5808H
Inputs to Outputs	4 to 4 / 9 to 9	4 to 4	8 to 9	16 to 16	4 to 4 / 8 to 8
Max. Resolution	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	1080p	1080p
HDCP	1.4	2.2	2.2	1.4	1.4
Audio	• (HDMI)	• (HDMI)	• (HDMI, Stereo)	• (HDMI, Stereo)	• (HDMI)
Seamless Swtich™	•*	•	•	•	•
Scaler	•*	•	•	•	•
Video Wall	•*	•	•	•	•
FrameSync	•*	•	•	•	N/A
Audio De-embedding	N/A	N/A	•	•	N/A
Web GUI	•	•	•	•	•
RS-232 Control	•	•	•	•	•
IR Control	• (VM3404H)	•	N/A	N/A	•
Ethernet Control	•	•	•	•	•

*The availability of these features depends on which receiver is used

Interface	HDMI			DVI	VGA	
Model	VM0404HB VM0808HB	VM0404HA VM0808HA	VM0202H	VM5404D VM5808D	VM0404	VS0202
Inputs to Outputs	4 to 4 / 8 to 8	4 to 4 / 8 to 8	2 to 2	4 to 4 / 8 to 8	4 to 4	2 to 2
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	1920 x 1200	1920 x 1440	1920 x 1200
HDR	•	N/A	N/A	N/A	N/A	N/A
HDCP	2.2	VM0404HA: 1.4 VM0808HA: 2.2	1.4	1.4	N/A	N/A
Audio	• (HDMI)	• (HDMI)	• (HDMI)	N/A	•	•
Seamless Swtich™	N/A	N/A	N/A	•	N/A	N/A
Scaler	N/A	N/A	N/A	•	N/A	N/A
Video Wall	N/A	N/A	N/A	•	N/A	N/A
Web GUI	•	• (VM0808HA)	N/A	•	N/A	N/A
RS-232 Control	•	•	•	•	•	N/A
IR Control	•	•	•	•	•	N/A
Ethernet Control	•	• (VM0808HA)	N/A	•	N/A	N/A

VM3404H 4 x 4 4K HDMI HDBaseT-Lite Matrix Switch

VM3909H 9 x 9 4K HDMI HDBaseT-Lite Matrix Switch



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PRO

IR Channel

EDID

POH

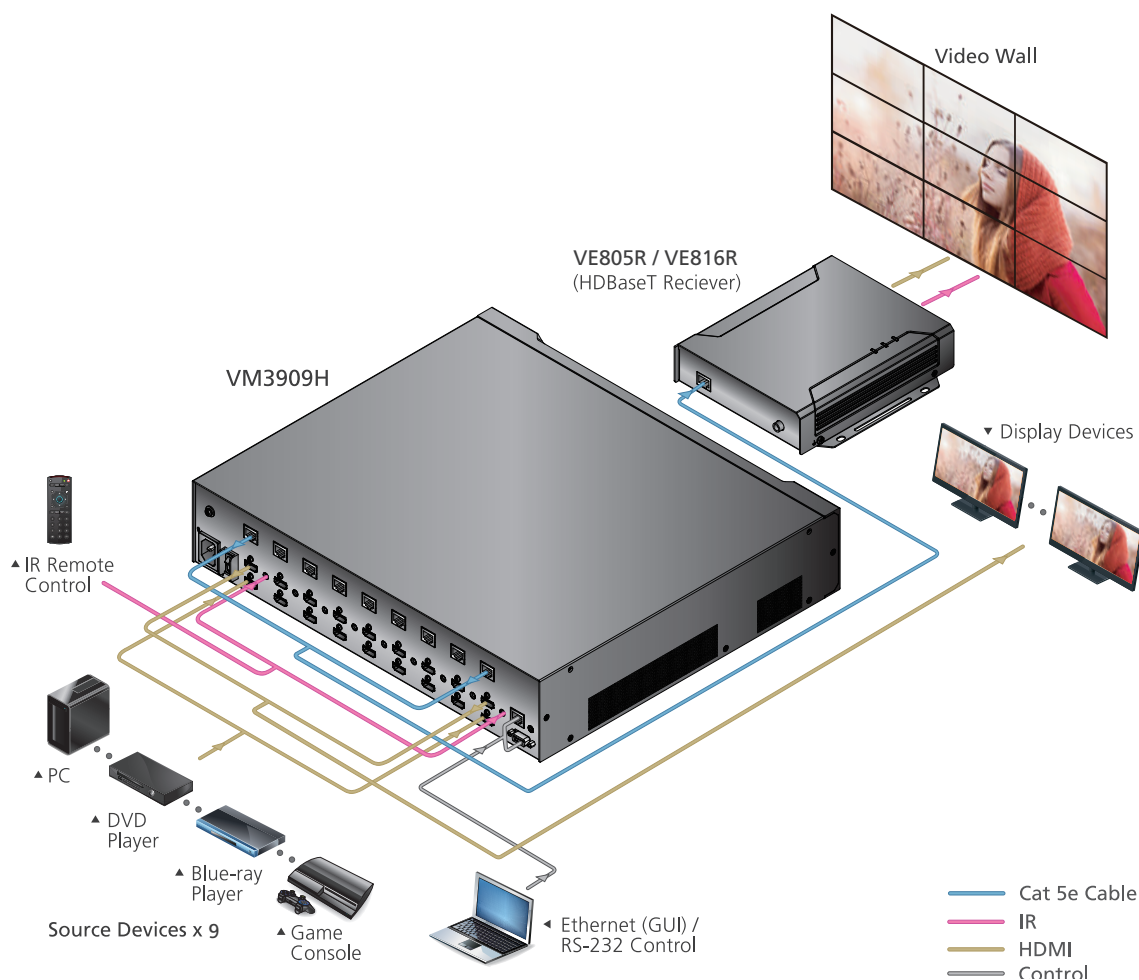


Features

- Supports 4 / 9 HDMI inputs and mirrored 4 / 9 HDMI and HDBaseT outputs
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- **HDBaseT Connectivity** – connects HDMI sources and displays over a long distance via one Cat 6/6a/ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission
- **Power over HDBaseT (POH)** – supplies power over a long distance from the switch to a receiver over a single Cat 6/6a/ATEN 2L-2910 Cat 6 cable*
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **Bi-directional IR channel** for IR signal control; full range IR transmission (30~60 KHz) is processed one direction at a time
- **ESD protection** for HDMI
- Rack-mountable (VM3404H / VM3909H: 1U / 2U Design)

Note: *The Seamless Switch™, Video Wall and POH features are only available when used the compatible receiver. The VM3404H / VM3909H can provide up to 15.4W@54 VDC of power per port and 35W / 75W of total power; please ensure that the power consumption of the devices connected to the VM3404H / VM3909H does not exceed this limit.

Setup > VM3404H / VM3909H



Specifications

Function	VM3404H	VM3909H
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	9 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	4 x HDMI Type A Female (Black); 4 x RJ-45 Female	9 x HDMI Type A Female (Black) ; 9 x RJ-45 Female
Impedance	100 Ω	100 Ω
Max. Distance	HDMI: up to 15 m HDBaseT (Class B): 4K up to 35 m (Cat 5e/6) / 40 m (Cat 6a); 1080p up to 60 m (Cat 5e/6) / 70 m (Cat 6a)	
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible Consumer Electronic Control (CEC) HDBaseT Compatible	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	Up to 70 m (Cat 6a)	
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR Channel	4 x Mini Stereo Jack Female (Black); 30~60 KHz full range transmission	9 x Mini Stereo Jack Female (Black); 30~60 KHz full range transmission
Ethernet	1 x RJ-45 Female	1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized	
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC 110V: 62W; AC220V: 60.6W	AC 110V: 122W; AC220V: 120W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	5.62 kg (12.38 lb)	7.33 kg (16.15 lb)
Dimensions (L x W x H)	43.24 x 38.23 x 4.40 cm (17.02 x 15.05 x 1.73 in.)	43.24 x 38.23 x 8.80 cm (17.02 x 15.05 x 3.46 in.)
Rack Height (U Spaces)	1U	2U
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x Mounting Kit	
Optional Accessories	Please refer to 6-14	

Compatible Receivers

Model	Max. Distance	IR	4K	Seamless Switch™	Video Wall	POH	Dual View	FrameSync
VE801R	70m*	N/A	•	N/A	N/A	N/A	N/A	N/A
VE802R	70m*	•	•	N/A	N/A	•	N/A	N/A
VE805R (with Scaler)	70m*	•	N/A	•	•	N/A	N/A	N/A
VE816R (with Scaler)	70m*	•	•	•	•	N/A	N/A	•
VE814AR	70m*	•	•	N/A	N/A	N/A	•	N/A
VE601R (DVI)	70m*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VE901R	70m*	N/A	•	N/A	N/A	N/A	N/A	N/A

* A Cat 6a cable is required to extend the distance up to 70 meters.

VM6404H 4 x 4 4K HDMI Matrix Switch with Scaler

VM6809H 8 x 9 4K HDMI Matrix Switch with Scaler



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FrameSync

EDID

HDCP 2.2

HDMI

4K



A/V In
HDMI



A/V Out
HDMI

RS-232
Control



IR Remote
Control



FPGA
Design

4K

Scaler



Seamless
Switch



Video
Wall

(VM6404H)

Features

- 4 x 4 or 8 x 9 HDMI I/O connections
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR (VM6404H), RS-232, and Ethernet connections
- **4K Scaler** – features a 4K video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Audio-enabled – HDMI audio can be extracted to stereo audio (VM6809H)
- HDMI (3D, Deep color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) support
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.



Specifications

Function	VM6404H	VM6809H
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	4 x HDMI Type A Female (Black)	9 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
Video		
Max. Data Rate	10.2 Gbps (3.40 Gbps per lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	Up to 15 m	
Audio		
Output	N/A	1 x Mini Stereo Jack Female (Green)
Control		
RS-232	Connector: 1 x DB-9 Female (Black); Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	N/A
Ethernet	1 x RJ-45 Female	
EDID Settings	EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)	
Power		
Connectors	1 x 3-prong AC Socket	1 x 3-prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60Hz; 1.0A	100-240 VAC; 50-60Hz; 1.0A
Consumption	AC110V: 47.6W; AC220V: 47.5W	AC110V: 79.5W; AC220V: 78.1W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	4.72 kg (10.4 lb)	7.05 kg (15.42 lb)
Dimensions (L x W x H)	43.24 x 30.73 x 4.40 cm (17.02 x 12.1 x 1.73 in.)	43.24 x 45.03 x 4.40 cm (17.02 x 17.73 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control (VM6404H); 1x IR Receiver (VM6404H); 1x Mounting Kit	
Optional Accessories	Please refer to 6-14	

VM51616H 16 x 16 HDMI Matrix Switch with Scaler



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A/V In
HDMI



A/V Out
HDMI

RS-232
Control



Video
Wall

EDID



FPGA
Design



Scaler



Seamless
Switch

Front



Rear



Features

- 16 x 16 HDMI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front panel pushbuttons, RS-232, and Ethernet connections
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- **Local HDMI Output** – allows multiple preview of 16 video sources
- Audio-enabled – HDMI audio can be extracted to stereo audio
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby TrueHD and DTS HD Master audio
- **ESD protection** for HDMI
- Rack-mountable (2U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

Function	VM51616H
Video Input	
Interfaces	16 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 5 m
Video Output	
Interfaces	16 x HDMI Type A Female (Black) (Array Mode): 1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	Up to 15 m
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Audio	
Output	1 x Mini Stereo Jack Female (Green)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Ethernet	1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)
Power	
Connectors	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC110V: 124.5W; AC220V: 121.8W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	7.86 kg (17.33 lb)
Dimensions (L x W x H)	43.24 x 38.18 x 8.80 cm (17.02 x 15.03 x 3.46 in.)
Carton Lot	1 pc
Included Accessories	1x Power Cord; 1x Mounting Kit
Optional Accessories	Please refer to 6-14

VM5404H 4 x 4 HDMI Matrix Switch with Scaler

VM5808H 8 x 8 HDMI Matrix Switch with Scaler



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Front

VM5404H



VM5808H

Rear

VM5404H



VM5808H

Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front-panel pushbuttons, IR, RS-232, and Ethernet connections
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- HDMI (3D, Deep color); HDCP 1.4 compatible
- Consumer Electronics Control (CEC) support
- Supports Dolby TrueHD and DTS HD Master audio
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

Function	VM5404H	VM5808H
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
Max. Pixel Clock	225 MHz	
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 1080p	
Max. Distance	Up to 15 m	
Control		
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female	
EDID Settings	EDID Mode: Default / Port1 / Remix / Customized (EDID Wizard support)	
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC110V: 34.1W; AC220V: 34.4W	AC110V: 55.9W; AC220V: 55.0W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	4.10 kg (9.03 lb)	4.03 kg (8.88 lb)
Dimensions (L x W x H)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
Optional Accessories	Please refer to 6-14	

VM0404HB 4 x 4 True 4K HDMI Matrix Switch

VM0808HB 8 x 8 True 4K HDMI Matrix Switch



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PRO



Front



VM0404HB

VM0808HB

Rear



VM0404HB

VM0808HB

Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports **True 4K** resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232 control, and Ethernet connections
- Intuitive web GUI control and management
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- Signaling rates up to 6 Gbits for flawless True 4K output
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- Power on Detection – switches to the next powered-on source when one source is powered off
- **ESD protection** for HDMI
- Rack Mountable (1U design)

Specifications

Function	VM0404HB	VM0808HB
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m; 4K@60Hz (4:4:4)	
Video Output		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3m; 4K@60Hz (4:4:4) / 15m; 1920 x 1200	
Video		
Max. Data Rate	18 Gbps (6 Gbps Per Lane)	
Max. Pixel Clock	600 MHz	
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible; Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	
Control		
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female	
EDID Settings	EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)	
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240 VAC; 50-60 Hz; 1.0A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	AC110V: 17.8W; AC220V: 17.6W	AC110V: 38.1W; AC220V: 37.8W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	2.47 kg (5.44 lb)	3.99 kg (8.79 lb)
Dimensions (L x W x H)	43.72 x 16.28 x 4.40 cm (17.21 x 6.41 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.3 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
Optional Accessories	Please refer to 6-14	

VM0404HA 4 x 4 4K HDMI Matrix Switch

VM0808HA 8 x 8 4K HDMI Matrix Switch

PRO

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

4K

A/V In
HDMI

A/V Out
HDMI

RS-232
Control

IR Remote
Control

EDID

HDCP 2.2

(VM0808HA)



Features

- 4 x 4 or 8 x 8 HDMI I/O connections
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 control
- Intuitive web GUI control via Ethernet connections (VM0808HA)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- Supports Dolby TrueHD and DTS HD Master audio
- Signaling rates up to 3.4 Gbits for flawless 4K output
- HDMI (3D, Deep Color, 4K); HDCP 1.4/2.2 (VM0404HA/VM0808HA) compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to a single remote control
- **ESD protection** for HDMI
- Rack Mountable (1U design)

Specifications

Function	VM0404HA	VM0808HA
Video Input		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	15 m	15 m
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	
Max. Pixel Clock	340 MHz	
Compliance	HDCP 1.4 Compatible	HDCP 2.2 Compatible
	HDMI (3D, 4K, Deep Color); Consumer Electronics Control (CEC)	
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Max. Distance	Up to 15 m	
Control		
USB	1 x Micro USB for F/W upgrade	N/A
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	N/A	1 x RJ-45 Female
EDID Settings	EDID Mode: Default / Port1 / Remix	EDID Mode: Default / Port 1 / Remix / Customized (EDID Wizard Support)
Power		
Connectors	1 x DC Jack (Black)	1 x 3-Prong AC Socket
Maximum Input Power Rating	N/A	100-240 VAC; 50-60 Hz; 1.0A
Consumption	DC5V: 9.62W	AC110V: 24W; AC220V: 24.4W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	2.02 kg (4.45 lb)	3.86 kg (8.5 lb)
Dimensions (L x W x H)	43.72 x 16.29 x 4.40 cm (17.21 x 6.41 x 1.73 in.)	43.24 x 26.23 x 4.40 cm (17.02 x 10.33 x 1.73 in.)
Carton Lot	3 pcs	1 pc
Included Accessories	1x Power Adapter (VM0404HA); 1x Power Cord (VM0808HA); 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	
Optional Accessories	Please refer to 6-14	

VM0202H 2 x 2 4K HDMI Matrix Switch **PRO**

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

4K

A/V In
HDMI

A/V Out
HDMI

RS-232
Control

IR Remote
Control

EDID

Front



Rear



Features

- 2 x 2 HDMI I/O connection
- Supports 4K resolutions up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Configuration and control via front-panel pushbuttons, IR remote, and RS-232
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolutions across different screens
- HDMI (3D, Deep Color, 4k); HDCP 1.4 Compatible
- Consumer Electronics Control (CEC) allows interconnected HDMI devices to communicate and respond to one remote control
- **ESD protection** for HDMI
- Rack-mountable (1U design)

Specifications

Function	VM0202H
Video Input	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, 4K, Deep Color); HDCP 1.4 Compatible; Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
Control	
USB	1 x Micro USB for FW upgrade
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	EDID Mode: Default / Port1 / Remix
Power	
Connectors	1 x DC Jack (Black)
Consumption	DC5V: 4.3W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.58 kg (1.28 lb)
Dimensions (L x W x H)	20.00 x 7.60 x 4.20 cm (7.87 x 2.99 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit
Optional Accessories	Please refer to 6-14

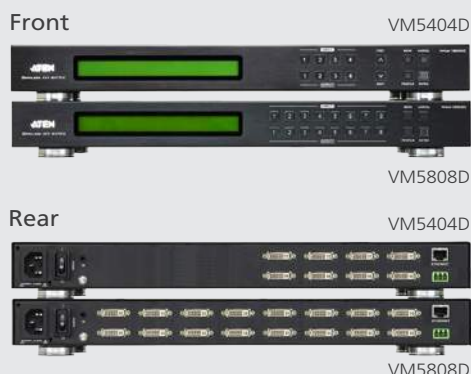
VM5404D 4 x 4 DVI Matrix Switch with Scaler

VM5808D 8 x 8 DVI Matrix Switch with Scaler



reddot award 2015
winner interface design

PRO



Features

- 4 x 4 or 8 x 8 DVI I/O connections
- Supports video resolutions up to 1080p
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232, and Ethernet connections
- Intuitive configuration via web-based GUI
- Extendable IR transmission via IR extension cable
- **Scaler** – features a video scaling function to convert input resolutions to the optimum display resolutions
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions*
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI*
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Rack-mountable (1U design)

Note: *If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switch™.

Specifications

Function	VM5404D	VM5808D
Video Input		
Interfaces	4 x DVI-D Female (White)	8 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	4 x DVI-D Female (White)	8 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	
Max. Pixel Clock	225 MHz	
Compliance	HDCP 1.4 Compatible	
Max. Resolution	Up to 1920 x 1200	
Max. Distance	Up to 5m	
Control		
RS-232	Connector: 1 x DB-9 Female (Black); Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No	
IR	1 x Mini Stereo Jack Female (Black)	
Ethernet	1 x RJ-45 Female (Black)	
EDID Settings	EDID Mode: Default / Port 1/ Remix / Customized	
Power		
Connectors	1 x 3-Prong AC Socket	1 x 3-Prong AC Socket
Maximum Input Power Rating	100-240VAC; 50-60Hz; 1.0A	100-240VAC; 50-60Hz; 1.0A
Consumption	AC110V: 34.1W; AC220V: 34.4W	AC110V: 55.9W; AC220V: 55W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	3.50 kg (7.71 lb)	4.25 kg (9.36 lb)
Dimensions (L x W x H)	43.24 x 25.98 x 4.40 cm (17.02 x 10.23 x 1.73 in.)	43.24 x 25.98 x 4.40 cm (17.02 x 10.23 x 1.73 in.)
Carton Lot	1 pc	1 pc
Included Accessories	1x Power Cord; 1x IR Remote Control; 1x IR Receiver; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
DVI-D cable*	2L-7D03DD (3 m)	12-6
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
IR Remote Control	2XRT-0106G	13-2

*Cables with different lengths are available, please refer to 12-6.

VM0404 4 x 4 VGA/Audio Matrix Switch **PRO**



Front



Rear



Features

- 4 x 4 VGA/Audio I/O connections with audio
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, and RS-232 connections
- Long distance transmission up to 30m
- Superior video quality – up to 1920 x 1440; VGA, SVGA, XGA, SXGA, UXGA, and WUXGA (1920 x 1200)
- Supports up to 300 MHz bandwidth for high performance video
- Built-in bi-directional RS-232 serial port for high-end system control
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolutions across different screens
- Independent switching of audio and video sources
- Rack-mountable (1U design)

Specifications

Function	VM0404
Video Input	
Interfaces	4 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	4 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Distance	30 m
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Audio	
Input	4 x Mini Stereo Jack Female (Green)
Output	
Control	
RS-232	Connector: 1 x DB-9 Female (Black); Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bit: 1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	EDID Mode: Mode: Default / Port1 / Remix / Auto
Power	
Connectors	1 x DC Jack (Black)
Consumption	DC5V: 2.54W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.87 kg (1.92 lb)
Dimensions (L x W x H)	26.00 x 7.61 x 4.40 cm (10.24 x 3 x 1.73 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-6
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
IR Remote Control	2XRT-0106G	13-2
Mounting Kit	2X-020G	13-2

VS0202 2 x 2 VGA/Audio Matrix Switch



Front



Rear



Features

- 2 x 2 VGA I/O connections with audio
- Each output can toggle between 2 inputs via front-panel pushbuttons
- Audio enabled
- Duplicate and enhance video signals to up to 30 m (max.)
- Expandable: Cascade to ATEN's video splitters to support hundreds of video displays
- Video Bandwidth up to 200 MHz

Specifications

Function	VS0202
Video Input	
Interfaces	2 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	2 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	200 MHz
Max. Resolution	Up to 1920 x 1200
Max. Distance	Up to 30 m
Audio	
Input	2 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 2.43W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.47 kg (1.04 lb)
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)
Carton Lot	20 pcs
Included Accessories	1x VGA/Audio Cable (1.8m); 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-6

Optional Accessories

VM3404H / VM3909H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2
Full Range IR Receiver (30-56 KHz) for channel	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56 KHz)	2XRT-0004G	13-2
IR Remote Control (for VM3404H Only)	2XRT-0106G	13-2

VM6404H / VM5404H / VM5808H / VM0404HB / VM0808HB / VM0404HA / VM0808HA

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
IR Remote Control	2XRT-0106G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2

VM6809H / VM51616H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

VM0202H

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Remote Control	2XRT-0101G	13-2
IR Receiver Cable (38 KHz)	2XRT-0003G	13-2

*Cables with different lengths are available; please refer to 12-5.

Video Switches

ATEN video switches allow you to conveniently display the video output of one to multiple high-resolution computer or source devices on a single or dual monitors. All models offer easy source selection via pushbuttons, RS-232, or IR remote control, meaning you never have to reach behind the monitor. With support for the full range of video standards and many models with audio functionality, ATEN video switches are the perfect choice for meeting rooms, laboratories, research centers, information management centers, and home theater applications.



- **Quick and Easy Port Selection**

Quickly and easily select the desired media source device among multiple sources with pushbuttons located on the device and with an IR remote control. The remote control lets you select source devices without having to get up and move to the switch to perform the selection with the pushbuttons.

- **Flexible Deployment**

By combining the switch with an external IR receiver you can locate it close to the media source. This provides greater video quality by keeping the cable distance shorter, while allowing you to control the media selection from a more comfortable location.

- **Outstanding Multimedia Support**

Audio signals from the source devices are transmitted together with the video – eliminating the need for a separate audio installation for each source and delivering an outstanding AV experience when working with modern multimedia applications.

- **Control System Integration**

The built-in RS-232 serial port and IR allows you to effortlessly integrate the ATEN Control System or your own control system, and customize the control process according to your needs. RS-232 and IR support also gives you the ability to integrate serial devices – such as barcode scanners, POS terminals, kiosk touch screens and more – as part of the installation.

- **Auto Switching**

The Auto Switching function enables automatic switches between selected ports with priority settings when the source device is connected. There are two types of priority settings that can be configured with Auto Switching: Auto, and Next Switch Priority. Auto places the priority on a particular port while Next Switch Priority places priority on the next port with a new source connected to it.

Note: 1.The features highlighted above are not available on all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.



Specifications at a Glance

Interface	HDMI						
Model	VS0801HB	VS481C	VS481B	VS0801H	VS482	VS481A	VS381
Inputs to Outputs	8 to 1	4 to 1	4 to 1	8 to 1	4 to 2	4 to 1	3 to 1
Max. Resolution	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:2:0)	1080p	1080p	1080p	1080p
HDR	•	•	N/A	N/A	N/A	N/A	N/A
HDCP	2.2	2.2	2.2	1.4	1.4	1.4	1.4
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI, Stereo, Optical, Coaxial)	• (HDMI)	• (HDMI)
Auto Switch	•	•	•	•	•	N/A	N/A
Power-on Detection	•	•	N/A	•	•	•	N/A
RS-232 Control	•	•	•	•	•	•	N/A
IR Control	•	•	•	•	•	•	•

Interface	DVI	VGA				
Model	VS261 / VS461	VS881	VS0801A	VS0201 / VS0401	VS291 / VS491	VS201
Inputs to Outputs	2 to 1 / 4 to 1	8 to 1	8 to 1	2 to 1 / 4 to 1	2 to 1 / 4 to 1	2 to 1
Max. Resolution	1920 x 1200	1920 x 1440	1920 x 1440	1920 x 1440	1920 x 1440	1920 x 1440
HDCP	1.4	N/A	N/A	N/A	N/A	N/A
Audio	•	N/A	•	•	N/A	N/A
Auto Switch	N/A	•	•	•	N/A	•
Power-on Detection	•	N/A	•	N/A	N/A	N/A
RS-232 Control	N/A	N/A	•	•	N/A	N/A
IR Control	•	•	•	• (Optional)	N/A	N/A

VS0801HB 8-Port True 4K HDMI Switch



Front



Rear



Features

- 8 x 1 HDMI I/O connections
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – **True 4K** resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

Function	VS0801HB
Video Input	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3 m
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K) HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	1 x DC Jack (with locking)
Consumption	DC5.3V: 3.73W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.14 kg (4.72 lb)
Dimensions (L x W x H)	43.72 x 15.83 x 4.40 cm (17.21 x 6.23 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control; 1x IR Receiver; 1x Power Adapter; 1x Rack Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0007G	13-2

*Cables with different lengths are available; please refer to 12-5.

VS481c 4-Port True 4K HDMI Switch **PRO**



Front



Rear



Features

- 4 x 1 HDMI I/O connections
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – **True 4K** resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- Bi-directional RS-232 serial port for high-end system control

Specifications

Function	VS481C
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3m
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K) HDCP 2.2 Consumer Electronics Control (CEC)
Max. Resolution	4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate & Protocol: Baud Rate: 19200 / Data Bits: 8 / Stop Bits: 1 / Parity: NO / Flow Control: NO
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	1 x DC Jack (with locking)
Consumption	DC5V: 0.294W
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.47 kg (1.04 lb)
Dimensions (L x W x H)	20.00 x 8.21 x 2.50 cm (7.87 x 3.23 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter; 1x IR Remote Control; 1x HDMI Cable

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0101G	13-2

*Cables with different lengths are available; please refer to 12-5.

VS481B 4-Port 4K HDMI Switch **PRO**



Front



Rear



Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color, 4K); HDCP 2.2 compatible
- Superior video quality – 4K resolutions of 4096 x 2160 @ 60 Hz (4:2:0)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- Bi-directional RS-232 serial port for high-end system control

Specifications

Function	VS481B
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	9 Gbps (3 Gbps Per Lane)
Max. Pixel Clock	300 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP 2.2 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Distance	Up to 15 m
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	Connector: 1 x DC Jack
Consumption	DC5V: 1.76W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.48 kg (1.06 lb)
Dimensions (L x W x H)	20.00 x 8.25 x 2.50 cm (7.87 x 3.25 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	1x HDMI Cable; 1x IR Remote Control; 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0101G	13-2

*Cables with different lengths are available; please refer to 12-5.

VS0801H 8-Port HDMI Switch **PRO**



Front



Rear



Features

- 8 x 1 HDMI I/O connections
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA, and WUXGA (1920x1200)
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

Function	VS0801H
Video Input	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
Power	
Connectors	1 x DC Jack (with locking)
Consumption	DC5.3V: 3.73W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.75 kg (3.85 lb)
Dimensions (L x W x H)	43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Remote Control	2XRT-0007G	13-2

*Cables with different lengths are available; please refer to 12-5.

VS482 4-Port HDMI Switch with Dual Output

PRO

Auto Switching

Instant Switch

Digital Audio Toslink

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

A/V In
HDMI

A/V Out
HDMI

RS-232
Control

IR Remote
Control

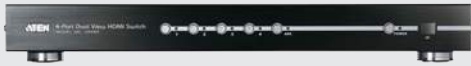
Dual View

OSD

ARC
Audio Return Channel

EDID

Front



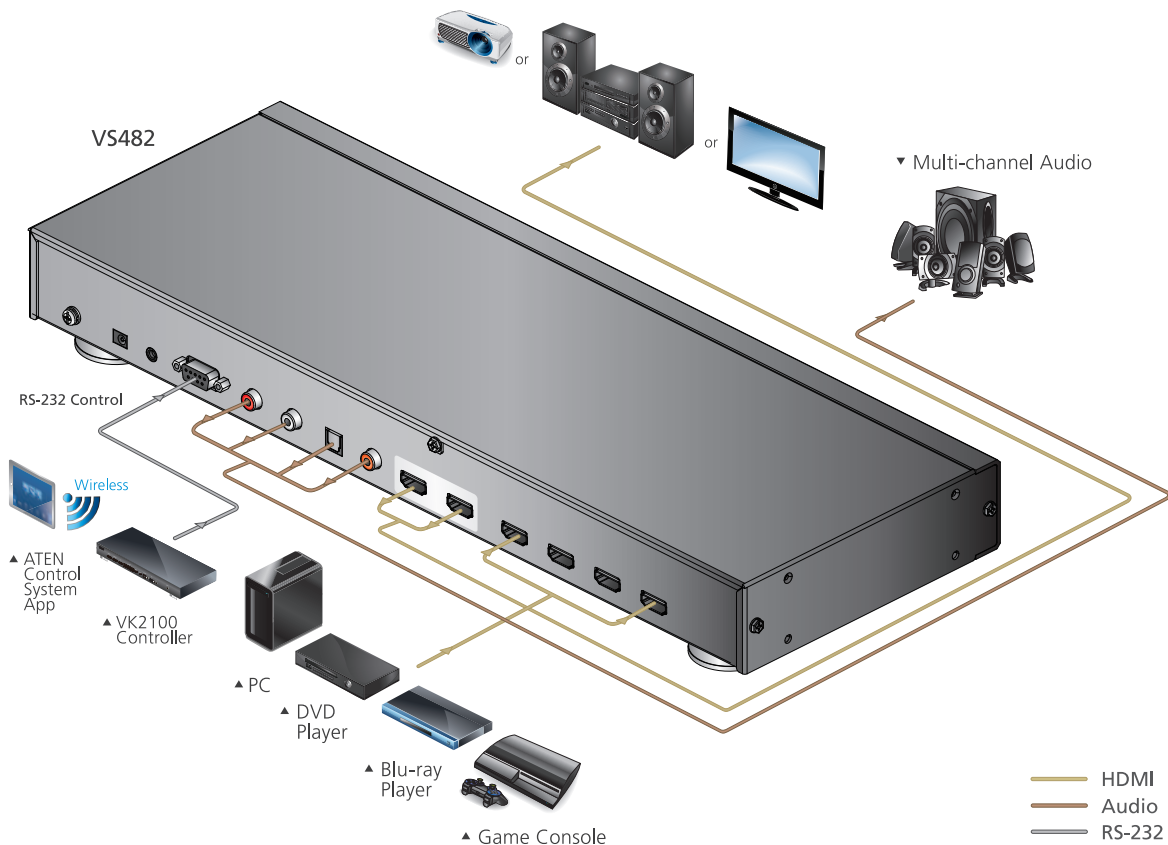
Rear



Features

- 4 x 2 HDMI I/O connections
- HDMI (3D, Audio Return Channel, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); up to WUXGA (1920x1200)
- **Instant Switching** – instant switch via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **On-Screen Display (OSD)** for system configuration settings and information display
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- **Audio Return Channel (ARC)** – audio from an HDMI source can be sent to an audio/video receiver by connecting an HDMI cable to the ARC port
- HDMI audio can be extracted to stereo audio and digital audio (optical/coaxial) outputs
- Rack-mountable (1U)

Setup > VS482



Specifications

Function	VS482
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15 m
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Audio Return Channel, Deep Color) HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
Audio	
Input	4 x HDMI Type A Female (Black)
Output	Analog: 2 x RCA (Red / White) Digital: 1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)
EDID Settings	EDID Mode: Default / Port1 / Auto
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 5.74W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.17 kg (4.78 lb)
Dimensions (L x W x H)	43.72 x 15.86 x 4.40 cm (17.21 x 6.24 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0010G	13-2

*Cables with different lengths are available; please refer to 12-5.

VS481A 4-Port HDMI Switch



Front



Rear



Features

- 4 x 1 HDMI I/O connections
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200)
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- Bi-directional RS-232 serial port for high-end system control

Specifications

Function	VS481A
Video Input	
Interfaces	4 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible Consumer Electronics Control (CEC)
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 1.87W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.47 kg (1.04 lb)
Dimensions (L x W x H)	20.00 x 8.27 x 2.50 cm (7.87 x 3.26 x 0.98 in.)
Carton Lot	10 pcs
Included Accessories	1x HDMI Cable; 1x IR Remote Control; 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
IR Remote Control	2XRT-0101G	13-2

*Cables with different lengths are available; please refer to 12-5.

VS381 3-Port HDMI Switch



Front



Rear



Features

- 3 x 1 HDMI I/O connections
- Video switching between input sources via front-panel pushbuttons or IR remote control
- Superior video quality – HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); PC resolutions of VGA, SVGA, XGA, SXGA, and WUXGA (1920x1200)
- HDMI (3D, Deep Color); HDCP 1.4 compatible
- Support Dolby TrueHD and DTS Master Audio

Specifications

Function	VS381
Video Input	
Interfaces	3 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible
Max. Resolution	Up to 1080p
Max. Distance	Up to 15 m
Control	
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 0.69W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.07 kg (0.15 lb)
Dimensions (L x W x H)	9.60 x 5.12 x 2.24 cm (3.78 x 2.02 x 0.88 in.)
Carton Lot	40 pcs
Included Accessories	1x IR Remote Control

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available; please refer to 12-5.

VS261 / VS461 2/4-Port DVI/Audio Switch



Features

- 2 x 1 or 4 x 1 DVI I/O connections
- Fully compliant with DVI-Digital and DVI-Analog
- Superior video quality – up to 1920 x 1200
- HDCP compatible
- Video switching via front-panel pushbuttons or IR remote control
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- Audio-enabled

Specifications

Function	VS261	VS461
Video Input		
Interfaces	2 x DVI-I Female (White)	4 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x DVI-I Female (White)	1 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	5 m	5 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP 1.4 Compatible	HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Max. Distance	Up to 5 m	Up to 5 m
Audio		
Input	4 x Stereo RCA Jack Female (Red/White)	8 x Stereo RCA Jack Female (Red/White)
Output	2 x Stereo RCA Jack Female (Red/White)	2 x Stereo RCA Jack Female (Red/White)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 1.7W	DC5.3V: 4.93 W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.50 kg (1.1 lb)	0.75 kg (1.65 lb)
Dimensions (L x W x H)	14.00 x 8.80 x 5.55 cm (5.51 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	10 pcs	10 pcs
Included Accessories	1x IR Remote Control; 1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
IR Remote Control	2XRT-0101G	13-2

VS881 8-Port VGA Switch with Auto Switching



Features

- 8 x 1 VGA I/O connections
- Modern concentric design with intuitive connector layout for quick and easy access
- Video switching via pushbuttons or IR remote control
- Automatic incoming signal selection (Auto)
- Extra-thin IR handset design allows easy storage under the unit

Specifications

Function	VS881
Video Input	
Interfaces	8 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Distance	10 m
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 10 m
Control	
IR	1 x Mini Stereo Jack Female (Black)
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 1.22W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.45 kg (0.99 lb)
Dimensions (L x W x H)	17.35 x 19.13 x 4.50 cm (6.83 x 7.53 x 1.77 in.)
Carton Lot	5 pcs
Included Accessories	1x IR Remote Control; 1x Infrared Receiver; 1x VGA Cable; 1x Power Adapter

Optional Accessories

Description	Part No. / Spec.	Page No.
IR Remote Control	2XRT-0007G	13-2

VS0801A 8-Port VGA/Audio Switch with Auto Switching



Front



Rear



Features

- 8 x 1 VGA/Audio I/O connections
- Video switching via front-panel pushbuttons, IR remote control, RS-232 serial device, or port-switching cable (optional)
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- **Video DynaSync™** – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- **Power-on Detection** – switches to the next powered-on source when one source is powered off
- Bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

Function	VS0801A
Video Input	
Interfaces	8 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Audio	
Input	8 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 1.01W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.10 kg (4.63 lb)
Dimensions (L x W x H)	43.70 x 15.98 x 4.40 cm (17.2 x 6.29 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x IR Remote Control; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
Port Switching VGA Cable	2L-5202B / 2L-5203B / 2L-5205B	13-2
IR Remote Control	2XRT-0007G	13-2

VS0201 / VS0401 2/4-Port VGA/Audio Switch



Features

- 2 x 1 or 4 x 1 VGA/Audio I/O connections
- Video switching via front-panel pushbuttons, IR remote control, or RS-232 serial device
- **Video DynaSync™** – Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- **Auto Switch Mode** – allows auto switching to a selected port with priority setting when a source is connected to the port
- Bi-directional RS-232 serial port for high-end system control

Specifications

Function	VS0201	VS0401
Video Input		
Interfaces	2 x HDB-15 Male (Blue)	4 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	30 m	30 m
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m
Audio		
Input	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud Rate and Protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 0.55W	DC5.3V: 0.47W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.45 kg (0.99 lb)	0.66 kg (1.45 lb)
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)	20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter	

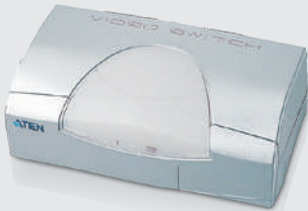
Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-6
IR Receiver Cable	2XRT-0003G	13-2
IR Remote Control	2XRT-0101G	13-2
Mounting Kit (VS0401)	2X-020G	13-2

VS291 / VS491 2/4-Port VGA Switch



Rear



Features

- 2 x 1 or 4 x 1 VGA I/O connections
- Video switching via the topside pushbutton
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

Specifications

Function	VS291	VS491
Video Input		
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	10 m	10 m
Video		
Max. Data Rate	150 MHz	150 MHz
Max. Pixel Clock	Up to 1920 x 1440	Up to 1920 x 1440
Compliance	Up to 10 m	Up to 10 m
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC9V: 0.82W	DC9V: 0.82W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic / Metal	Plastic / Metal
Weight	0.15 kg (0.33 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.)	12.00 x 6.52 x 4.40 cm (4.72 x 2.57 x 1.73 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter	

VS201 2-Port VGA Switch Wall Plate



Features

- 2 x 1 VGA I/O connections
- Automatic incoming signal selection (Auto)
- Quick and easy switching via slide switch
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

Specifications

Function	VS201
Video Input	
Interfaces	2 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Max. Distance	30 m
Video	
Max. Bandwidth	300 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 0.75W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.20 kg (0.44 lb)
Dimensions (L x W x H)	10.36 x 7.90 x 2.79 cm (4.08 x 3.11 x 1.1 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

Video Splitters

ATEN video splitters not only duplicate a single video source to multiple outputs but also boost the signal so it can be sent over longer distances without degradation. Multiple splitters can be cascaded up to three levels to provide a high number of displays in multiple locations. Models with audio functionality are available. ATEN video splitters are ideal for public broadcasting, computer stores, classrooms, training facilities and digital signage applications.



- **Cost Effective Expansion**

Video splitters easily and economically transmit the signals from a single AV source to multiple output devices so that all the connected monitors display the same content simultaneously. If an application calls for more displays, its installation can be expanded by cascading additional units via port connections on the splitter.

- **High Bandwidth – Crisp Output**

With ultra-high bandwidth support, images appear crisp, clear and true on each of the target displays.

- **Outstanding Multimedia Support**

In addition to high-quality video, the integrated audio component delivers an outstanding AV experience when working with modern multimedia applications.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.

2.Product information is subject to change without prior notice.



Specifications at a Glance

Interface	DisplayPort	HDMI			
Model	VS192 / VS194	VS0108HB	VS182B / VS184B	VS0110HA	VS182A / VS184A / VS0108HA
Inputs to Outputs	1 to 2 / 1 to 4	1 to 8	1 to 2 / 1 to 4	1 to 10	1 to 2 / 1 to 4 / 1 to 8
Max. Resolution	4096 x 2160@60Hz	4K@60Hz (4:4:4)	4K@60Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)	4K@60Hz (4:2:0) 4K@30Hz (4:4:4)
HDR	N/A	•	•	N/A	N/A
HDCP	1.3	2.2	2.2	1.4	VS182A/VS184A: 1.4 VS0108HA: 1.3
Audio	• (DisplayPort)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
Data Rate	21.6Gbps	18Gbps	18Gbps	10.2Gbps	10.2Gbps

Interface	HDMI	DVI		SDI	VGA
Model	VS82H	VS172 / VS174	VS162 / VS164	VS146	VS0116
Inputs to Outputs	1 to 2	1 to 2 / 1 to 4	1 to 2 / 1 to 4	1 to 6	1 to 16
Max. Resolution	4K@60Hz (4:4:4)	2560 x 1600	1920 x 1200	1080p@60Hz	1920 x 1440
HDR	•	N/A	N/A	N/A	N/A
HDCP	2.2	N/A	1.3	N/A	N/A
Audio	• (HDMI)	• (Stereo)	• (Stereo)	•	• (Stereo)
Data Rate	18Gbps	13.5Gbps	6.75Gbps	2.97Gbps	250MHz

Interface	VGA				
Model	VS0102 / VS0104 / VS0108	VS132A / VS134A / VS138A	VS92A / VS94A / VS98A	VS82 / VS84	VS132 / VS102
Inputs to Outputs	1 to 2 / 1 to 4 / 1 to 8	1 to 2 / 1 to 4 / 1 to 8	1 to 2 / 1 to 4 / 1 to 8	1 to 2 / 1 to 4	1 to 2
Max. Resolution	1920 x 1440	2048 x 1536	1920 x 1440	1920 x 1440	1920 x 1440
Audio	• (Stereo)	N/A	N/A	N/A	N/A
Data Rate	450MHz	450MHz	350MHz	250MHz	VS132: 350MHz VS102: 250MHz

VS192 / VS194 2/4-Port 4K DisplayPort Splitter



Front



Rear



Features

- Connects 1 DisplayPort input to 2/4 DisplayPort outputs
- DisplayPort 1.2a; HDCP 1.3 compatible
- Superior video quality – up to 4096 x 2160 / 3840 x 2160 @ 60Hz
- Supports MST/ Extend Mode and SST/ Split Mode
- MST/ Extend Mode:** Extends a video source across 2/4 displays with a maximum resolution of 4K
- SST/ Split Mode:** Duplicates a single video source to 2/4 displays with a maximum resolution of 4K on each monitor

Note: The maximum supported video resolution and number of monitors are dependent on the graphics card you are using. Check the specifications of the graphics card to determine its capabilities.

Specifications

Function	VS192	VS194
Video Input		
Interfaces	1 x DisplayPort Female (Black)	1 x DisplayPort Female (Black)
Video Output		
Interfaces	2 x DisplayPort Female (Black)	4 x DisplayPort Female (Black)
Video		
Max. Data Rate	21.6 Gbps (5.4 Gbps per lane)	21.6 Gbps (5.4 Gbps per lane)
Compliance	DP 1.2a; HDCP 1.3	DP 1.2a; HDCP 1.3
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5V: 1.185W	DC5V: 3.36W
Environmental		
Operating Temperature	0 - 40 °C	0 - 40 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.30 kg (0.66 lb)	0.33 kg (0.73 lb)
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (2m)	12-6
DisplayPort to VGA Adapter	VC925	10-15
DisplayPort to HDMI Adapter	VC985	10-15

*Cables with different lengths are available; please refer to 12-6.

VS0108HB 8-Port True 4K HDMI Splitter



Front



Rear



Features

- Connects 1 HDMI Input to 8 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
- Superior video quality – True 4K resolutions of 4096 x 2160 @ 60Hz (4:4:4) and HDR
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission from source to sink up to 6m
- Built-in bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U design)

Specifications

Function	VS0108HB
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3m; 4K@60Hz (4:4:4)
Video Output	
Interfaces	8 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	3m; 4K@60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Port 1 / Default / Auto / Switch
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 11.95W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.18 kg (4.8 lb)
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VS182B / VS184B 2/4-Port True 4K HDMI Splitter



Front



Rear



Features

- Connects 1 HDMI input to 2/4 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
- Superior video quality – **True 4K** resolutions of 4096 x 2160 @ 60Hz (4:4:4) and HDR
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission – up to 15m (1920 x 1200) / 1.8m (True 4K)

Specifications

Function	VS182B	VS184B
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8m; 4K@60Hz (4:4:4)	1.8m; 4K@60Hz (4:4:4)
Video Output		
Interfaces	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	1.8m; 4K@60Hz (4:4:4) 15m; 1920 x 1200	1.8m; 4K@60Hz (4:4:4) 15m; 1920 x 1200
Video		
Max. Data Rate	18 Gbps (6 Gbps Per Lane)	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz	600 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5V: 4.24W	DC5V: 4.84W
Environmental		
Operating Temperature	0 - 40 °C	0 - 40 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.32 kg (0.7 lb)	0.48 kg (1.06 lb)
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter; 1x HDMI Cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available; please refer to 12-5.

VS0110HA 10-Port 4K HDMI Splitter



Front



Rear



Features

- Connects 1 HDMI input to 10 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible
- Superior video quality – up to 4K resolutions of 4096 x 2160 @ 60Hz (4:2:0)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Long distance transmission from source to sink up to 15m
- Built-in bi-directional RS-232 serial port for high-end system control
- Rack-mountable (1U)

Specifications

Function	VS0110HA
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5m; 4K@60Hz (4:2:0)
Video Output	
Interfaces	10 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	10m; 4K@60Hz (4:2:0)
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI 1.4 (3D, Deep Color, 4K); HDCP 1.4 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Control	
RS-232	Connector: 1 x DB-9 Female (Black) Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default (1080p) / Port 1 / Auto
Connectors	
Power	1 x DC Jack
USB Port	1 x Micro USB (FW upgrade)
Power Consumption	DC5V: 4.34W
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.96 kg (6.52 lb)
Dimensions (L x W x H)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VS182A / VS184A / VS0108HA 2/4/8-Port 4K HDMI Splitter



Front



Rear



Features

- Connects 1 HDMI input to 2/4/8 HDMI outputs
- HDMI (3D, Deep Color, 4K); HDCP 1.4/1.3 Compatible
- Superior video quality – up to 4K resolutions of 4096 x 2160 @ 60Hz (4:2:0)
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens (VS0108HA)
- Long distance transmission – up to 15 m (24 AWG)
- Built-in bi-directional RS-232 serial port for high-end system control (VS0108HA)
- Rack-mountable (VS0108HA; 1U)

Specifications

Function	VS182A	VS184A	VS0108HA
Video Input			
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
Video Output			
Interfaces	2 x HDMI Type A Female (Black)	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω	100 Ω
Max. Distance	Up to 15 m	Up to 15 m	Up to 15 m
Video			
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible	HDMI (3D, Deep Color, 4K); HDCP 1.4 Compatible	HDMI (3D, Deep Color, 4K); HDCP 1.3 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)		
Control			
RS-232	N/A	N/A	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	N/A	N/A	EDID Mode: Default / Port 1 / Auto
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 3.12W	DC5.3V: 6.02W	DC5V: 12.1W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.31 kg (0.68 lb)	0.47 kg (1.04 lb)	1.74 kg (3.83 lb)
Dimensions (L x W x H)	12.50 x 8.00 x 2.50 cm (4.92 x 3.15 x 0.98 in.)	20.00 x 8.00 x 2.50 cm (7.87 x 3.15 x 0.98 in.)	43.72 x 15.78 x 4.40 cm (17.21 x 6.21 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	3 pcs
Included Accessories	1x HDMI Cable (VS182A/VS184A); 1x Power Adapter; 1x Mounting Kit (VS0108HA)		

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available; please refer to 12-5.

VS82H 2-Port True 4K HDMI Splitter



Features

- Connects 1 HDMI input to 2 HDMI outputs
- True 4K video resolution (up to 4096 x 2160 @ 60Hz; 4:4:4); HDR supported
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compliant
- Supports max. data rate up to 18 Gbps
- Hardware selectable EDID mode for high-quality display and use of the best resolution across different screens
- Quality and durable aluminum metal enclosure
- Supports Dolby TrueHD and DTS-HD Master Audio

Specifications

Function	VS82H
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	15cm; 4K@60Hz (4:4:4)
Video Output	
Interfaces	2 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	1.8m; 4K@60Hz (4:4:4)
Video	
Max. Data Rate	18 Gbps (6 Gbps Per Lane)
Max. Pixel Clock	600 MHz
Compliance	HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 Compatible
Max. Resolution	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)
EDID Settings	EDID Mode: Port 1 / Default
Connectors	
USB Port	Micro-USB X 1 (FW upgrade & power source)
Power Consumption	DC 5V
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal (aluminum)
Weight	93 g (0.21 lb)
Dimensions (L x W x H)	8.80 x 6.00 x 1.50 cm (3.46 x 2.36 x 0.59 in.)
Included Accessories	1x Micro-USB Cable

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available; please refer to 12-5.

VS172 / VS174 2/4-Port DVI Dual Link/Audio Splitter PRO



Front



Rear



Features

- Connects 1 DVI/Audio AV input to 2/4 DVI/Audio AV outputs
- Superior video quality – up to 2560 x 1600 @ 60Hz including 2K-resolution (2048 x 2048 @ 60Hz)
- Cascadable to 3 levels – provides up to 64 video signals
- System management via RS-232 connections
- **RS-232 Chain Control** – uses RS-232 commands to control cascaded devices via a DVI cable
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens

Specifications

Function	VS172	VS174
Video Input		
Interfaces	1 x DVI-D Female (White)	1 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x DVI-D Female (White)	4 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	Up to 5 m	Up to 5 m
Video		
Max. Data Rate	13.5 Gbps (2.25 Gbps Per Lane)	13.5 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Max. Resolution	Up to 2560 x 1600	Up to 2560 x 1600
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Control		
RS-232	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No	Connector: 1 x DB-9 Female (Black) Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No
EDID Settings	EDID Mode: Default / Port 1 / Auto	EDID Mode: Default / Port 1 / Auto
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 3.6W	DC5.3V: 5.91W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.68 kg (1.5 lb)	0.73 kg (1.61 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter	

Note: HDCP is not supported

Optional Accessories

Description	Part No. / Spec.	Page No.
Dual Link DVI Cable*	2L-7D03DD (3 m)	12-6
DVI Cable with Audio	2L-7D02V	12-6

*Cables with different lengths are available; please refer to 12-6.

VS162 / VS164 2/4-Port DVI/Audio Splitter



Front



Rear



Features

- Connects 1 DVI/Audio input to 2/4 DVI/Audio outputs
- **DDC/CI support** – allows color, brightness, contrast and other adjustments via GUI for DDC/CI enabled LCD monitors
- Superior video quality – up to 1920 x 1200
- Fully compliant with DVI-digital and DVI-analog
- Supports DDWG (Digital Display Working Group) standard for DVI compliant monitors
- Cascadable to 3 levels - provides up to 64 video signals
- HDCP 1.3 compliant
- Speaker enabled for audio enjoyment

Specifications

Function	VS162	VS164
Video Input		
Interfaces	1 x DVI-I Female (White)	1 x DVI-I Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x DVI-D Female (White)	4 x DVI-D Female (White)
Impedance	100 Ω	100 Ω
Max. Distance	Up to 5 m	Up to 5 m
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP 1.3 Compatible	HDCP 1.3 Compatible
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200
Audio		
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 2.36W	DC5.3V: 3.95W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.62 kg (1.37 lb)	0.72 kg (1.59 lb)
Dimensions (L x W x H)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)	21.00 x 8.80 x 5.55 cm (8.27 x 3.46 x 2.19 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
DVI Cable with Audio	2L-7D02V	12-6

VS146 6-Port 3G-SDI Splitter



Features

- Connects 1 SDI input to 6 SDI outputs
- Supports an SDI distance of up to 90m (3G-SDI), 150m (HD-SDI), or 300m (SD-SDI) of RG6
- Re-clocking SDI signals for cascading and thus longer transmission
- Automatic detection of 3G/HD/SD-SDI signals
- Passes all ancillary data
- Power connector lock for secure communication

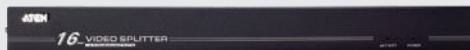
Specifications

Function	VS146
Video Input	
Interfaces	1 x BNC (Gold)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	6 x BNC (Gold)
Impedance	75 Ω
Video	
Max. Data Rate	2.97 Gbps
Supported Resolutions	NTSC@59.96 Hz, PAL@50 Hz 720p@50/59.94/60 Hz 1080i@50/59.94/60 Hz 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90 m (3G-SDI); 150 m (HD-SDI); 300 m (SD-SDI)
Power	
Connectors	1 x DC Jack
Consumption	DC5V: 10W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.32 kg (0.7 lb)
Dimensions (L x W x H)	10.80 x 13.90 x 2.80 cm (4.25 x 5.47 x 1.1 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

VS0116 16-Port VGA/Audio Splitter (250MHz) **PRO**



Front



Rear



Features

- Connects 1 VGA/Audio input to 16 VGA/Audio outputs
- Superior video quality – up to 1920 x 1440
- Supports up to 250MHz bandwidth
- Cascadable to 3 levels - provides up to thousands of video signals
- Long distance transmission - up to 65 m
- Rack-mountable (1U design)

Specifications

Function	VS0116
Video Input	
Interfaces	1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	16 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	250 MHz
Max. Resolution	Up to 1920 x 1440
Max. Distance	Up to 30 m
Audio	
Input	1 x Mini Stereo Jack Female (Green)
Output	16 x Mini Stereo Jack Female (Green)
Power	
Connectors	1 x DC Jack
Consumption	DC5.3V: 3.07W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	2.80 kg (6.17 lb)
Dimensions (L x W x H)	43.72 x 15.81 x 4.40 cm (17.21 x 6.22 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	1x VGA/Audio Cable; 1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-6
VGA EDID Emulator	2A-130G	10-19

VS0102 / VS0104 / VS0108 2/4/8-Port VGA/Audio Splitter (450MHz) PRO



Front



Rear



Features

- Connects 1 VGA/Audio input to 2/4/8 VGA/Audio outputs
- Superior video quality – up to 1920 x 1440 @ 60Hz
- Supports up to 450MHz bandwidth for high performance video
- System management via RS-232 connections
- [RS-232 Chain Control](#) – uses RS-232 commands to control cascaded devices via a DVI cable
- [EDID Expert™](#) – selects optimum EDID settings for smooth power-up, high-quality display, and use of the best resolution across different screens
- Rack-mountable (VS0108; 1U)

Specifications

Function	VS0102	VS0104	VS0108
Video Input			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
Video Output			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Video			
Max. Bandwidth	450 MHz	450 MHz	450 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
Audio			
Input	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Output	2 x Mini Stereo Jack Female (Green)	4 x Mini Stereo Jack Female (Green)	8 x Mini Stereo Jack Female (Green)
Control			
RS-232	1 x DB-9 Female (Black)		
EDID Settings	EDID Mode: Default / Port 1 / Auto		
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC5.3V: 0.74W	DC5.3V: 1.13W	DC5.3V: 2.18W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.46 kg (1.01 lb)	0.68 kg (1.5 lb)	0.87 kg (1.92 lb)
Dimensions (L x W x H)	13.00 x 7.61 x 4.40 cm (5.12 x 3 x 1.73 in.)	20.00 x 7.61 x 4.40 cm (7.87 x 3 x 1.73 in.)	26.00 x 7.61 x 4.40 cm (10.24 x 3 x 1.73 in.)
Carton Lot	10 pcs	10 pcs	10 pcs
Included Accessories	1x Power Adapter		

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA / Audio Cable	2L-2402A	12-6
Mounting Kit (VS0108)	2X-020G	13-2
VGA EDID Emulator	2A-130G	10-19

VS132A / VS134A / VS138A 2/4/8-Port VGA Splitter (450MHz)



Front



Rear



Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Superior video quality – up to 2048 x 1536
- Supports up to 450MHz bandwidth for high-performance video
- Cascadable to 3 levels – provides up to 512 video signals
- Built-in 1.5 GHz amplifier – maintains video system with excellent fidelity

Specifications

Function	VS132A	VS134A	VS138A
Video Input			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
Video Output			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Video			
Max. Bandwidth	450 MHz	450 MHz	450 MHz
Max. Resolution	Up to 2048 x 1536	Up to 2048 x 1536	Up to 2048 x 1536
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC5V: 0.62W	DC5V: 0.9W	DC5V: 1.99W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.42 kg (0.93 lb)	0.61 kg (1.34 lb)	0.69 kg (1.52 lb)
Dimensions (L x W x H)	13.00 x 7.51 x 4.40 cm (5.12 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	20 pcs
Included Accessories	1x Power Adapter		

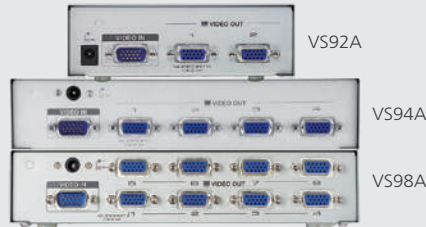
Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-19

VS92A / VS94A / VS98A 2/4/8-Port VGA Splitter (350MHz)



Rear



Features

- Connects 1 VGA input to 2/4/8 VGA outputs
- Superior video quality – up to 1920 x 1440@60Hz
- Supports VGA, XGA, SVGA, UXGA, WUXGA and Multisync monitors
- Supports 350 MHz bandwidth
- Cascadable to 3 levels – provides up to 512 video signals (VS98A)

Specifications

Function	VS92A	VS94A	VS98A
Video Input			
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m	1.8 m
Video Output			
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)	8 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω	75 Ω
Video			
Max. Bandwidth	350 MHz	350 MHz	350 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m	Up to 30 m
Power			
Connectors	1 x DC Jack	1 x DC Jack	1 x DC Jack
Consumption	DC9V: 1.15W	DC9V: 3.28W	DC9V: 5W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.42 kg (0.93 lb)	0.61 kg (1.34 lb)	0.69 kg (1.52 lb)
Dimensions (L x W x H)	13.00 x 7.51 x 4.40 cm (5.12 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)	20.00 x 7.51 x 4.40 cm (7.87 x 2.96 x 1.73 in.)
Carton Lot	20 pcs	20 pcs	20 pcs
Included Accessories	1x Power Adapter		

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-19

VS82 / VS84 2/4-Port VGA Splitter Wall Plate (Plastic) (250MHz)



Features

- Connects 1 VGA input to 2/4 VGA outputs
- Superior video quality – up to 1920 x 1440
- Supports 250MHz bandwidth
- Cascadable to 3 levels - provides up to 64 video signals (VS84)
- Supports VGA, XGA, SVGA, UXGA and Multisync monitors

Specifications

Function	VS82	VS84
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x HDB-15 Female (Blue)	4 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	250 MHz	250 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 30 m	Up to 30 m
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	DC9V: 1.02W	DC9V: 1.93W
Environmental		
Operating Temperature	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.14 kg (0.31 lb)	0.15 kg (0.33 lb)
Dimensions (L x W x H)	8.76 x 11.46 x 3.33 cm (3.45 x 4.51 x 1.31 in.)	8.84 x 11.88 x 3.33 cm (3.48 x 4.68 x 1.31 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter; 1x VGA Cable (optional)	

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-19

VS132 / VS102 2-Port VGA Splitter Wall Plate (350MHz / 250MHz)



Features

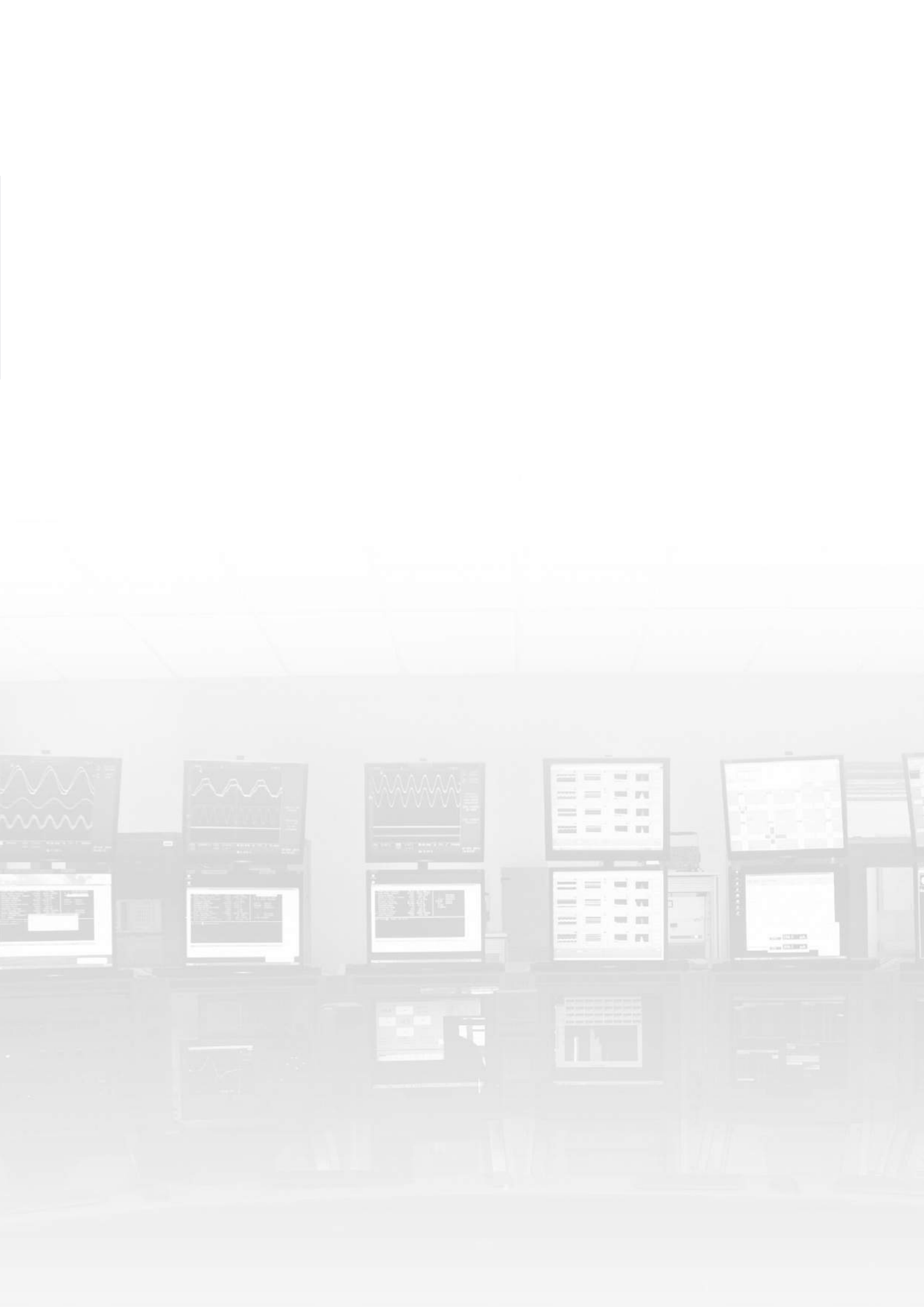
- Connects 1 VGA input to 2 VGA outputs
- Superior video quality – up to 1920 x 1440
- Supports 350MHz (VS132) / 250MHz (VS102) bandwidth
- Cascadable to 3 levels – provides up to 8 video signals
- Long distance transmission – up to 65 m

Specifications

Function	VS132	VS102
Video Input		
Interfaces	1 x HDB-15 Male (Blue)	1 x HDB-15 Male (Blue)
Impedance	75 Ω	75 Ω
Max. Distance	1.8 m	1.8 m
Video Output		
Interfaces	2 x HDB-15 Female (Blue)	2 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	350 MHz	250 MHz
Max. Resolution	Up to 1920 x 1440	Up to 1920 x 1440
Max. Distance	Up to 65 m	Up to 65 m
Power		
Connectors	1 x DC Jack	1 x DC Jack
Consumption	5.3 VDC: 0.42W	DC9V: 1.22W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.19 kg (0.42 lb)	0.19 kg (0.42 lb)
Dimensions (L x W x H)	10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.)	10.36 x 7.90 x 2.82 cm (4.08 x 3.11 x 1.11 in.)
Carton Lot	20 pcs	20 pcs
Included Accessories	1x Power Adapter	

Optional Accessories

Description	Part No. / Spec.	Page No.
VGA EDID Emulator	2A-130G	10-19



Video Extenders, Video Boosters

ATEN video extender solutions offer a full range of options that allow you to extend the distance between the source devices and displays in your video installations by up to 300m / 20km. They are ideal for all applications where remote video displays are required, allowing you to place your computers or source devices in a secure and safe environment. ATEN video extender solutions are available in all popular interfaces and with a variety of innovative features and exclusive technologies.



- **Networked AV**

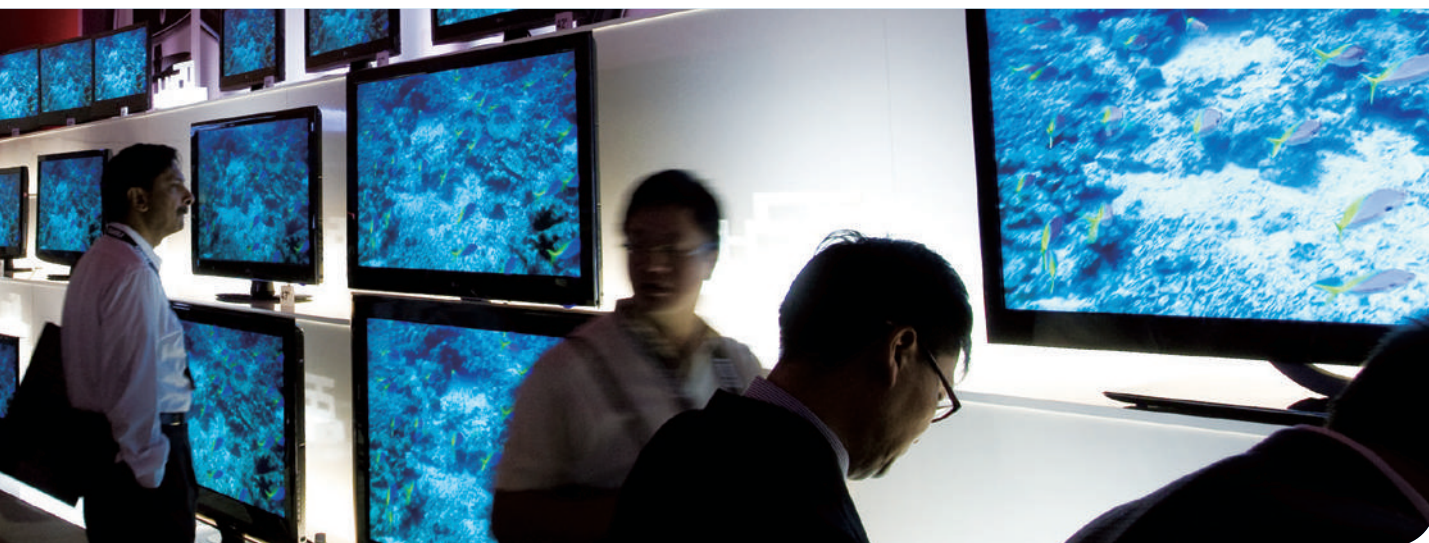
ATEN networked AV solutions deliver visually lossless high-quality video with ultra-low latency over a standard Gigabit network. These flexible, scalable solutions remove distance and input/output limitations while making over IP AV system implementation easy and simple for all video over IP environments.

- **HDBaseT™ Extenders**

ATEN HDBaseT™ extenders are optimized for home and professional AV installations and provide a simple and efficient solution for transmitting Ultra HD signals, audio, 100Mb Ethernet, power and control signals through a single Cat 5e/6a up to 100 meters.

- **Wall Plates**

Wall plate extenders manage and deliver signals while concealing cables and keeping other equipment out of sight. ATEN's range of wall plate extension solutions deliver HDMI/DVI/VGA and audio signals via HDBaseT / Cat5e/6 / ATEN-2L-2910 up to 4K@100m (HDBaseT Class A), 4K@100m (HDBaseT Class B), and 1080p@40m, and are designed to meet US, EU, and MK standards.



- **Optical / AOC**

ATEN offers 4K HDMI and HDMI optical extender solutions that transmit 4K HDMI up to 10km and 1080p up to 20km, as well as a True 4K HDMI 2.0 Active Optical Cable that is EMI-resistant and fully compliant with HDCP 2.2 standards, meeting HDMI 2.0 specifications including 3D, deep color, and data rates up to 18 Gbps.

- **Cat5 / Cat6 Extenders**

ATEN provides a wide range of long distance extension solutions utilizing equalizer technology that connect via Cat5e/6/6a cables, including HDMI, HDMI/USB, HDMI/IR, DVI, Dual Link DVI with Audio, VGA, VGA with Audio, and VGA/Audio/RS-232 models.

- **Boosters**

ATEN Boosters amplify and transmit signals to increase distances in your AV installation. Solutions that support True 4K HDMI up to 20m/1080P up to 40m, and 1280x1024 VGA up to 70m, as well as other DVI and VGA models, are available.

Specifications at a Glance

Networked AV

Connection	Over IP			
Video Interface	HDMI			
Model	VE8950T	VE8950R	VE8900T	VE8900R
Inputs to Outputs	Multiple to Multiple	Multiple to Multiple	Multiple to Multiple	Multiple to Multiple
Max. Resolution / Distance	4K@100m	4K@100m	1080p@100m	1080p@100m
HDCP	1.4	1.4	1.4	1.4
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI / Stereo)
RS-232 Channel	•	•	•	•
IR Channel	•	•	•	•
USB Channel	•	•	•	•
Scaler	N/A	•	N/A	•

HDBaseT™ Extenders

Connection	HDBaseT (Class A)						
Video Interface	HDMI	HDMI	HDMI & VGA	HDMI	HDMI	HDMI	HDMI
Model	VE1832	VE816R	VE2812T	VE2812R	VE814A	VE813A	VE811
Inputs to Outputs	1 to 1	1 output	2 Inputs	1 output	1 to 3	1 to 1	1 to 1
Max. Resolution / Distance	True 4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m; 1920 x 1200@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@100m; 1080p@100m
HDR	•	N/A	N/A	N/A	N/A	N/A	N/A
HDCP	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Long Reach Mode**	• (Active)	• (Passive)	• (Active)	• (Active)	• (Active)	• (Passive)	• (Active)
Audio	• (HDMI / Stereo)	• (HDMI)	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Channel	•	•	•	•	•	N/A	N/A
IR Channel	•	•	•	•	•	N/A	N/A
USB Channel	• (USB2.0)	N/A	N/A	N/A	N/A	• (USB2.0)	N/A
Ethernet Channel	•	N/A	N/A	N/A	•	N/A	N/A
POH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scaler	N/A	•	N/A	N/A	N/A	N/A	N/A

Connection	HDBaseT™ (Class A)*		HDBaseT™ (Class B)*				
Video Interface	HDMI	HDMI	HDMI	HDMI	HDMI	DisplayPort	DVI
Model	VE1812	VE812	VE1830	VE805R	VE801 / VE802	VE901	VE601
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 output	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	True 4K@40m; 1080p@70m	1080p@70m	4K@40m; 1080p@70m	4K@40m; 1080p@70m	1920 x 1200@40m; 1080p@70m
HDR	N/A	N/A	•	N/A	N/A	N/A	N/A
HDCP	2.2	2.2	2.2	1.4	2.2	1.4	1.4
Long Reach Mode**	• (Active)	• (Passive)	N/A	N/A	N/A	N/A	N/A
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (DisplayPort)	N/A
RS-232 Channel	•	N/A	•	•	• (VE802)	N/A	N/A
IR Channel	•	N/A	N/A	•	• (VE802)	N/A	N/A
USB Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethernet Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A
POH	PSE: VE1812T PD: VE1812R	N/A	N/A	N/A	PSE: VE802T PD: VE802R	N/A	N/A
Scaler	N/A	N/A	N/A	•	N/A	N/A	N/A

Wall Plates

Connection	HDBaseT™ (Class A)*		HDBaseT™ (Class B)*	
Video Interface	HDMI & VGA	HDMI & VGA	HDMI	HDMI
Type	MK / EU	US	MK / EU	US
Model	VE2812EUT	VE2812UST	VE1801EUT	VE1801UST
Inputs to Outputs	2 inputs	2 inputs	1input	1 input
Max. Resolution / Distance	4K@100m; 1080p@100m	4K@100m; 1080p@100m	4K@40m; 1080p@70m	4K@40m; 1080p@70m
HDCP	2.2	2.2	2.2	2.2
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI)	•(HDMI)
Long Reach Mode**	• (Active)	• (Active)	N/A	N/A
RS-232 Channel	•	•	•	•
IR Channel	•	•	N/A	N/A

Connection	Cat 5 / Cat 6					
Video Interface	HDMI	HDMI	DVI	DVI	VGA	VGA
Type	MK / EU	US	MK / EU	US	MK / EU	US
Model	VE807	VE806	VE607	VE606	VE157	VE156
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	1080p@40m; 1080i@60m	1080p@40m; 1080i@60m	1920 x 1200@40m; 1280 x 1024@60m	1920 x 1200@40m; 1280 x 1024@60m	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1280 x 1024@150m
HDCP	1.4	1.4	1.4	1.4	N/A	N/A
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (Stereo)	• (Stereo)	• (Stereo)	• (Stereo)
RS-232 Channel	N/A	N/A	N/A	N/A	N/A	N/A
IR Channel	N/A	N/A	N/A	N/A	N/A	N/A

Wireless

Connection	Wireless			
Video Interface	HDMI	HDMI	HDMI & Component	HDMI
Model	VE819	VE849	VE829	VE809
Inputs to Outputs	1 to 1	2 to 5	5 to 2	2 to 2
Max. Resolution / Distance	1080p@10m	1080p@30m	1080p@30m	1080p@30m
HDR	N/A	N/A	N/A	N/A
HDCP	1.4	1.4	1.4	1.4
Audio	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Channel	N/A	N/A	N/A	N/A
IR Channel	• (Control)	• (Control)	• (Control)	• (Control)
USB Channel	N/A	N/A	• (HID)	N/A

Optical / AOC

Connection	Optical				AOC
Video Interface	HDMI	HDMI	HDMI	HDMI	HDMI
Model	VE883K1	VE883K2	VE882	VE892	VE7832 / VE7833 / VE7834 / VE7835
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	4K@300m	4K@10km	1080p@600m	1080p@20km	True 4K@15m; True 4K@30m; True 4K@60m; True 4K@100m
HDR	N/A	N/A	N/A	N/A	•
HDCP	2.2	2.2	1.4	1.4	2.2
Audio	• (HDMI / Stereo)	• (HDMI / Stereo)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232 Channel	•	•	•	•	N/A
IR Channel	•	•	•	•	N/A
USB Channel	• (USB2.0)	• (USB2.0)	N/A	N/A	N/A
Ethernet Channel	•	•	N/A	N/A	N/A

Cat5 / Cat6 Extenders

Connection	Cat5 / Cat6					
Video Interface	HDMI			DVI		
Model	VE800A	VE803	VE810	VE602	VE600A	VE066
Inputs to Outputs	1 to 1			1 to 1		
Max. Resolution / Distance	1080p@40m; 1080i@60m			Dual Link: 2560 x 1600@40m Single Link: 1920 x 1200@40m; 1280 x 1024@60m	1080p@40m; 1080i@60m	1920 x 1200@20m
Audio	• (HDMI)			• (Stereo)	• (Stereo)	N/A
RS-232 Channel	N/A			N/A	N/A	N/A
IR Channel	N/A	N/A	•	N/A	N/A	N/A
USB Channel	N/A	•	N/A	N/A	N/A	N/A

Connection	Cat5 / Cat6					
Video Interface	VGA					
Model	VE022	VE150A	VE170	VE170Q	VE200	
Inputs to Outputs	1 to 1					1 to 2
Max. Resolution / Distance	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1280 x 1024@150m	1920 x 1200@30m; 1024 x 768@300m	1920 x 1200@150m; 1280 x 1024@300m	1920 x 1200@30m; 1280 x 1024@200m	
Audio	•	N/A	•	N/A	•	
RS-232 Channel	N/A	N/A	N/A	N/A	•	
IR Channel	N/A	N/A	N/A	N/A	N/A	
USB Channel	N/A	N/A	N/A	N/A	N/A	

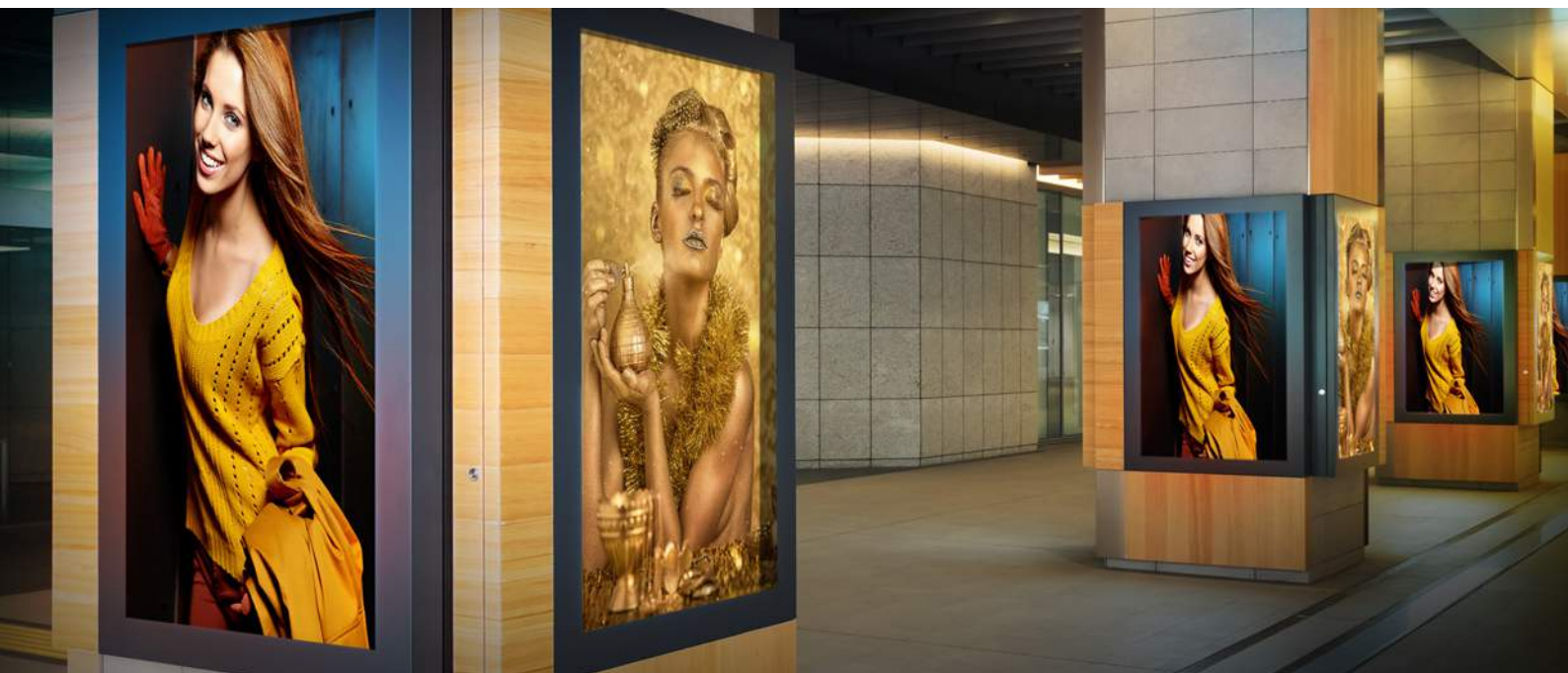
Boosters

Video Interface	DisplayPort	HDMI	DVI	VGA
Model	VB905	VB800	VE560	VB100
Inputs to Outputs	1 to 1	1 to 1	1 to 1	1 to 1
Max. Resolution / Distance	4K@60Hz (4:4:4) / 10m	4K@60 Hz (4:4:4) / 20m	1920 x 1200@30m; 1280 x 1024@50m	1920 x 1200@30m 1280 x 1024@70m
HDCP	2.2	2.2	1.4	N/A
HDR	•	•	N/A	N/A

* Ensure high quality maximum distance video transmission with ATEN HDBaseT Cat6, 2L-2910.

** Models marked Active provide Long Reach Mode support which can be activated via a switch on the unit. Models marked Passive provide automatic Long Reach Mode support when activated by another device.

Networked AV



Why Choose ATEN's Video over IP Solution?

The VE8900 / VE8950 delivers visually lossless 1080p / 4K AV signals with low latency over long distance via a standard Gigabit network.

The solution is designed to address the challenges that system integrators encounter when implementing AV over IP solutions and provides an effective, easy-to-use, and economical digital signage solution with the following features and advantages:



Limitless Flexibility and Scalability

From a simple point-to-point setup, to hundreds of endpoints, the VE8900 / VE8950 offers flexibility, scalability and multi-functionality in extender, splitter, matrix switch, and video wall applications.



Go Farther for Less with Daisy Chaining

Easily expand your AV network coverage without cable clutter or extra network switches while also lowering per-port costs.



No Complicated IP Setup

The VE8900 / VE8950 allows you to effortlessly switch input sources via top panel pushbuttons / ID display and offers simple configuration that requires no extensive IT experience.



No Additional Server PCs or Software Required

Effortlessly manage your AV over IP system by logging in to any receiver or transmitter from the web GUI.



Scheduling Management

Pre-plan display schedules and manage all events in the calendar to as detailed as minute intervals, as well as effortlessly manage profiles through grouping individual receivers or video walls.

VE8900T / VE8900R VE8950T / VE8950R

HDMI over IP Transmitter / Receiver (1080p@100 m)
4K HDMI over IP Transmitter / Receiver (4K@100 m)

100 m



Features

- Delivers visually lossless high-quality video up to 1080p @ 60 Hz (VE8900) / 4K @ 30 Hz 4:4:4 (VE8950)
- Ensures stunning quality video using ATEN advanced video lossless compression technology
- Extends AV connections from a simple point-to-point to a multi-point to multi-point setup via LAN without distance limitations
- Offers multi-functionality in extender, splitter, matrix switch, video wall and daisy chain applications
- Mix and match the latest 4K displays and 1080p screens. The built-in scaler automatically scales incoming video signals to match the maximum resolution of the connected display devices¹
- No additional server PCs, control boxes, or software/drivers are needed
- Connects multiple displays through a single port to utilize every port of the network switch and maximize their value²
- Easily switches layout profiles, preview and drag-and-drop video sources via the intuitive web GUI
- For VE8900T/8950T – separate audio signal can be embedded into the HDMI stream
- For VE8900R/8950R – audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Multiple control methods – the system can be managed via Ethernet or top-panel pushbuttons
- Integrated solution – Compatible with ATEN Control System, allowing users to directly operate VE8900/8950 via CLI Telnet or RS-232 protocol
- Offers an user-friendly scheduling management function for users to pre-plan the display schedule

Front (VE8950)

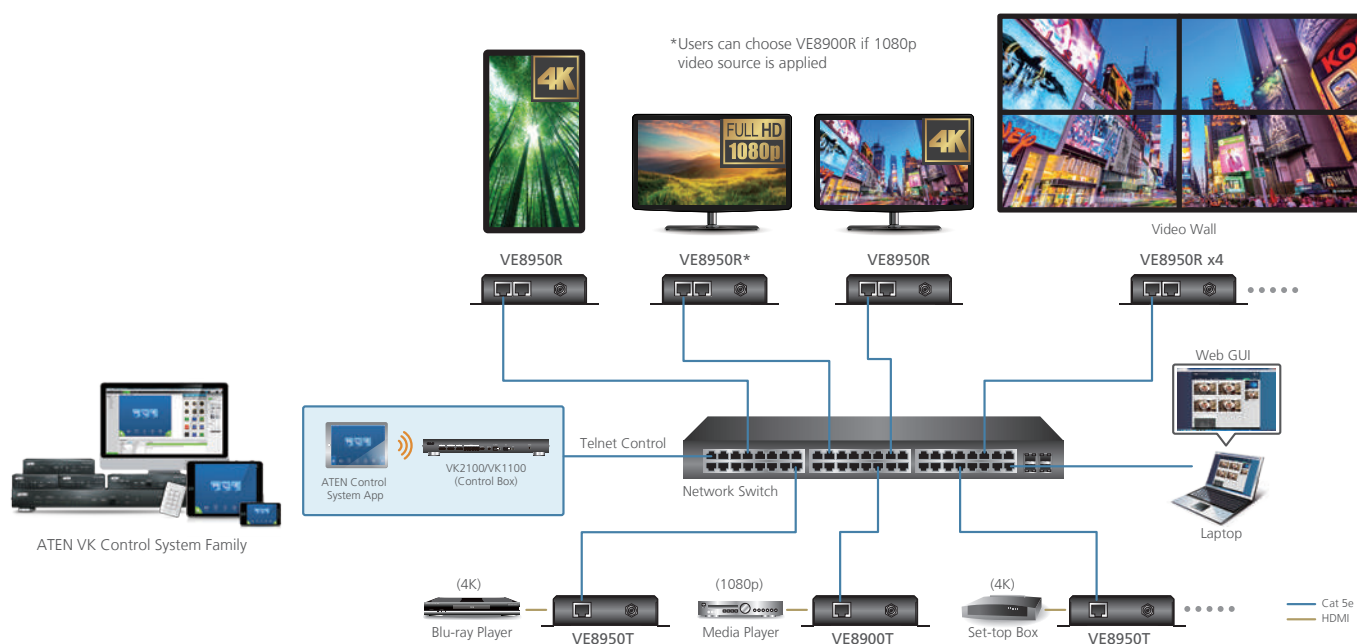


Rear (VE8950)



Setup > VE8900 / VE8950

Note: 1. VE8900R supports up to 1080p. Downscaling from 4K to 1080p is not available on this model.
2. Depending on your network architecture, we recommend daisy chaining up to 30 units. Please contact ATEN representatives for more details.



Specifications

Function	VE8900R	VE8950R	VE8900T	VE8950T
Video Input				
Interfaces	N/A		1 x HDMI Type A Female (Black)	
Impedance	N/A		100 Ω	
Max. Distance	N/A		1.8 m	
Video Output				
Interfaces	1 x HDMI Type A Female (Black)		N/A	
Impedance	100 Ω		N/A	
Video				
Max. Data Rate	Average: 150 ~ 500Mbps		Average: 150 ~ 500Mbps	
Compliance	HDMI HDCP Compatible	HDMI (4K) HDCP Compatible	HDMI HDCP Compatible	HDMI (4K) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@100m (Cat 5e/6, point to point)	Up to 4K@100m (Cat 5e/6, point to point) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 1080p@100m (Cat 5e/6, point to point)	Up to 4K@100m (Cat 5e/6, point to point) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio				
Input	N/A		1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)		N/A	
Connectors				
Unit to Unit	2 x RJ-45 Female		1 x RJ-45 Female	
Power	1 x DC Jack (Black) with locking		1 x DC Jack (Black) with locking	
Control				
IR	1 x Mini Stereo Jack Female (Black)		1 x Mini Stereo Jack Female (Black)	
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control		Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	
USB	2 x USB Type A Female (Black)		1 x USB Type B Female (White)	
Power Consumption	DC5V: 4.28W (without USB peripheral device loading)	DC5V: 4.53W (without USB peripheral device loading)	DC5V: 3.07W	DC5V: 3.08W
Environmental				
Operating Temperature	0 - 40°C		0 - 40°C	
Storage Temperature	-20 - 60°C		-20 - 60°C	
Humidity	0 - 80% RH, Non-Condensing		0 - 80% RH, Non-Condensing	
Physical Properties				
Housing	Metal		Metal	
Weight	0.49 kg (1.08 lb)		0.50 kg (1.10 lb)	
Dimensions (L x W x H) with bracket	14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.20 in.)		14.02 x 12.30 x 3.06 cm (5.52 x 4.84 x 1.20 in.)	
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.14 in.)		13.60 x 10.10 x 2.96 cm (5.35 x 3.98 x 1.14 in.)	
Carton Lot	5 pcs		5 pcs	
Included Accessories	1x RS-232 Terminal Block; 1x 5V Power Adapter			

Note: Supports 1920x1200@60Hz reduced blanking (ATEN Default EDID only)

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

*Cables with different lengths are available, please refer to 12-5.

VE8900 / VE8950 Mobile Control App



VE8900 / VE8950 Mobile Control App

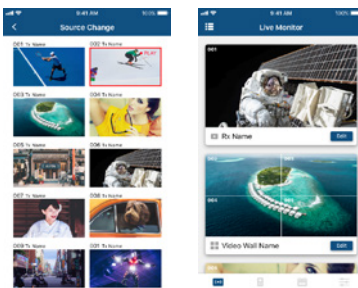


Turn your mobile phone into a remote control for VE8900 / VE8950

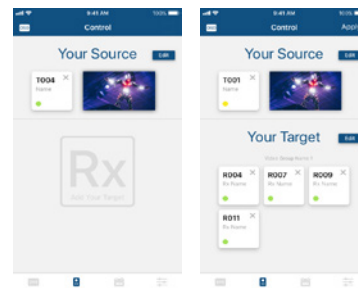
The VE8900 / 8950 Mobile Control App is a free app that supports iOS and Android operating systems. This mobile app provides you an intuitive operation and direct access to VE Manager anytime anywhere.

Features

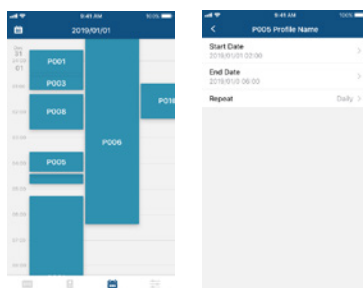
- Allows users to preview the video source content from transmitter side and monitor the status of receiver and video wall



- Effectively switches source content to modify the display content



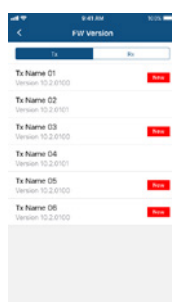
- Allows users to check the display schedule and rearrange the schedule if necessary



- Integrates "Find My VE" for simple access



- Provides firmware update reminder



HDBaseT Extenders



Less is More with HDBaseT

HDBaseT technology is ideal for professional AV installations and provides a simple and cost-effective solution to transmit 4K ultra high definition (UHD) signals up to 100 meters.



Simplified Cabling

Implements HDBaseT™ extension technology to connect transmitter and receiver units over one single Cat 6/6a cable



Ultra HD and High Quality Audio

Supports Full HD, 3D and 4K x 2K, Dolby TrueHD and DTS HD Master Audio



Long Distance Transmission

Delivers uncompressed video & audio using one Cat 6/6a cable up to 100 – 150 m



Anti-jamming Design

HDBaseT Anti-jamming technology resists signal interference during high-quality video transmissions



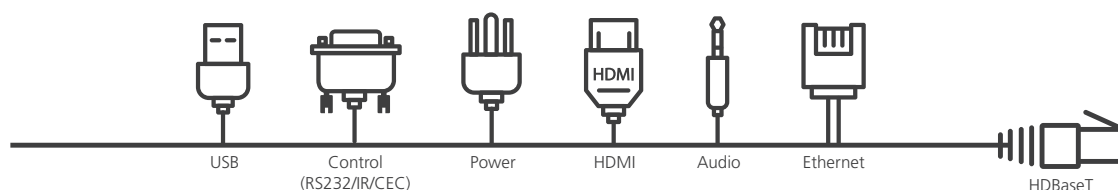
Flexible Control

Provides multiple control signals: CEC, RS-232, Ethernet, IR and USB 2.0



POH (Power over HDBaseT)

Supplies power from the Power Source Equipment (PSE) to the Power Device (PD) over long distances via one Cat 6/6a cable



VE1832 True 4K HDMI/USB HDBaseT 2.0 Extender 100 m (True 4K@100m) (HDBaseT Class A)



Features

- Extends True 4K HDMI signal up to 100m over a single Cat 6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI 2.0 (3D, Deep Color, True 4k)
- HDCP 2.2 compliant
- Superior video quality – up to True 4K resolutions of 3840 x 2160 @ 60Hz (4:4:4)
- Supports multiple independent audio channels – HDMI, Stereo Audio, and SPDIF for higher quality of surround sound
- **HDBaseT Long Reach Mode** – extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- **EDID Expert™** – selects optimum EDID settings for high-quality display and use of optimum video resolution
- Supports wide screen format
- Compliant with USB 2.0 standard for a wide range of USB peripherals compatibility
- Extends Ethernet communication using the Ethernet pass-through port
- Firmware upgradable
- Built-in 8KV / 15 KV ESD protection
- Plug-and-play
- Rack-mountable

Specifications

Function	VE1832R	VE1832T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, True 4K); HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, True 4K); HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	True 4K: 3840 x 2160 @ 60Hz (4:4:4)	True 4K: 3840 x 2160 @ 60Hz (4:4:4)
Max. Resolutions / Distance	Up to True 4K & 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to True 4K & 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x SPDIF Toslink Female (Black)
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green) 1 x SPDIF Toslink Female (Black) 1 x SPDIF Coaxial Female (Red)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Control		
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black) 30 ~ 56KHz Full Range Transmission	1 x Mini Stereo Jack Female (Black)
Ethernet Channel	1 x RJ-45 Female	1 x RJ-45 Female
USB Channel	3 x USB Type A Female (Black) (2 ports for USB keyboard/mouse; 1 port for USB peripherals.)	1 x USB Type B Female (White)
Power Consumption	DC5V: 9.82W	DC5V: 4.05W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.62 kg (1.37 lb)	0.61 kg (1.34 lb)
Dimensions (L x W x H) with bracket	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)	17.02 x 14.69 x 3.00 cm (6.7 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x IR Transmitter, 1x IR Receiver, 2x RS-232 Terminal Blocks, 8x Foot Pads, 2x Power Adapters	
Optional Accessories	Please refer to 9-57	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE1830 True 4K HDMI HDBaseT-Lite Extender (True 4K@40m) (HDBaseT Class B) 70m



Front



Rear



Features

- Extends True 4K HDMI signal up to 40m over a single Cat 6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI 2.0a (3D, Deep Color, True 4k); HDCP 2.2 compliant
- Superior video quality – up to True 4K resolutions of 3840 x 2160 @ 60Hz (4:4:4)
- Supports HDR
- Supports PoC – supplies power from VE1830T to VE1830R
- Features RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Plug-and-play
- Rack-mountable

Specifications

Function	VE1830R	VE1830T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4Gbps per lane)	10.2 Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, True 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, True 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolution	True 4K: 3840 x 2160 @ 60Hz (4:4:4) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	True 4K: 3840 x 2160 @ 60Hz (4:4:4) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Max. Resolutions / Distance	Up to True 4K & 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat6a/ATEN 2L-2910 Cat6)	Up to True 4K & 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat6a/ATEN 2L-2910 Cat6)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Control		
RS-232 Channel	Connector: 1 x Terminal Block, 3 pole	Connector: 1 x Terminal Block, 3 pole
Power Consumption		
Switches	DC 12V: 7W	DC 12V: 3W
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.12 kg (0.27 lb)	0.12 kg (0.27 lb)
Dimensions (L x W x H)	12.05 x 7.4 x 1.95 cm (4.74 x 2.91 x 0.77 in.)	12.05 x 7.4 x 1.95 cm (4.74 x 2.91 x 0.77 in.)
Included Accessories		
Optional Accessories		
1x Power Adapter; 1x IR Transmitter; 1x IR Receiver		
Please refer to 9-57		

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE816R 4K HDMI HDBaseT Receiver with Scaler

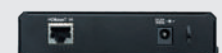
(4K@100m) (HDBaseT Class A) 100 m



Front



Rear



Features

- **HDBaseT Long Reach Mode** – activated by RS-232 commands, the Long Reach Mode extends signals up to 150 m, 1080p, via a single Cat 5e/6 cable
- **Scaler** – scales videos of different resolutions to their optimal output for display
- **Video Wall** – features video wall profiles that allows for custom screen layouts via an intuitive web GUI¹
- **Seamless Switch™** – close-to-zero second switching that provides continuous video streams, real-time switching, and stable signal transmissions¹
- Bi-directional RS-232 channel – allows for control using serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – IR transmission is processed one direction at a time²
- Cable Quality Tester – examines the category cable quality through signal level detection from HDBaseT Matrix Switches / output board to the VE816R.
- **FrameSync** – prevents image tearing by synchronizing the scaler output frame rate to the input signal frame rate
- Rack-mountable

Note: 1.The Seamless Switch™ and video wall functions are available when the VE816R is used with ATEN HDBaseT Matrix.

2.Supports full-frequency IR signals from 30 KHz to 56 KHz.

Specifications

Function	VE816R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color,4K); HDCP Compatible; HDBaseT Compatible
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0);4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Silver)
Control	
IR Channel	1 x Mini Stereo Jack Female (Black)
RS-232 Channel	1 x Terminal Block, 3 pole (Green)
Switches	
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	
	DC5V: 9.09W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.67 kg (1.48 lb)
Dimensions (L x W x H) with bracket	16.80 x 14.69 x 3.00 cm (6.61 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
Carton Lot	
	5 pcs
Included Accessories	
	1x IR Transmitter; 1x IR Receiver; 1x Terminal Block; 1x Power Adapter
Optional Accessories	
	Please refer to 9-57

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE805R HDMI HDBaseT-Lite Receiver with Scaler (1080p@70m) (HDBaseT Class B)

70 m



Front



Rear



Features

- **HDBaseT Connectivity** – extends 4 x 4 HDBaseT connections over a long distance via single Cat 6/6a or ATEN 2L-2910 Cat6 cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmissions using HDBaseT technology
- **Scaler** – features a video scaling function to integrate a video wall seamlessly with various output video formats¹
- **Seamless Switch™** – features close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions¹
- **Video Wall** – allows you to create custom video wall layouts via intuitive web GUI¹
- **Bi-directional RS-232 channel** transmits signals over Cat 6/6a cable to control a display or other device²

Note: 1. Seamless Switch™, scaler and video wall functions are only available when the VE805R is used with the VM8514 and VM3404H / VM3909H. If Seamless Switch™ is enabled, the video output will not display 3D, Deep Color or interlace (i.e., 1080i) features. To use these features, you must disable Seamless Switching™.

2. Bi-directional RS-232 Channel only available when VE805R is working with VM8514

Specifications

Function	VE805R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gbps (2.25 Gbps per lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible HDBaseT Compatible
Max. Resolutions / Distance	Up to 1080p @60m (Cat 5e/6); 70m (Cat 6a)
Control	
RS-232	1 x Captive Screw Connector, 3 Pole
IR	1 x Mini Stereo Jack Female (Black)
Connectors	
Power	1 x DC Jack (Sliver)
Switches	
Firmware Upgrade	1 x Slide Switch
Power Consumption	
	DC5V: 8.36W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.81 kg (1.78 lb)
Dimensions (L x W x H)	17.74 x 16.92 x 4.20 cm(6.98 x 6.66 x 1.65 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 1x Terminal Block
Optional Accessories	Please refer to 9-57

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE2812T HDMI + VGA HDBaseT Transmitter (4K@100m) (HDBaseT Class A) 100 m



Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI (3D, Deep color, 4K); HDCP compatible
- Superior video quality:
 - HDMI: 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
 - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- **Auto Switch Mode** – allows the VE2812T automatically switches to a newly plugged-in source
- Bi-directional RS-232 channel transmits signals
- Compatible Receivers – VE1812R, VE811R, VE814AR, VE801R, VE802R, VE601R, VE901R, or future ATEN HDBaseT Receivers
- Plug-and-play
- Rack-mountable

Specifications

Function	VE2812T
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)
Impedance	HDMI: 100 Ω; HDB-15 (VGA): 75 Ω
Max. Distance	1.8 m
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible; Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Input	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Switches	
Video Input Port Selection	1 x Push Button - HDMI, VGA and AUTO
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
Power Consumption	
	DC5V: 2.99W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.47 kg (1.04 lb)
Dimensions (L x W x H) with bracket	14.32 x 12.30 x 3.00 cm (5.64 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	
	5 pcs
Included Accessories	
	1x RS-232 Terminal Block; 1x Power Adapter
Optional Accessories	
	Please refer to 9-57

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE2812R HDMI HDBaseT Receiver with Audio De-Embedding (4K@100m) 100 m (HDBaseT Class A)



Features

- Extends HDMI signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality – up to 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- **Supports HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Audio stream can be extracted from the HDMI stream and delivered as a separate audio signal
- Supports both Coaxial SPDIF and Stereo earphone jack output
- Manually turns on/off HDMI audio output
- Audio EDID Switching – 2ch Stereo, 5.1ch Surround sound, and AUTO
- Features RS-232 serial port for connecting peripherals such as touch screens, and barcode scanners
- Bi-directional IR signal transmission – IR transmission is processed one direction at a time, ranged from 30 kHz to 56 kHz
- Built-in 8KV / 15 KV ESD protection
- Supports wide screen format
- Plug-and-play
- Rack-mountable

Specifications

Function	VE2812R
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio	
Output	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green) 1 x SPDIF Coaxial Female (Orange)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Power Consumption	
Switches	
HDMI Mute	1 x Slide Switch - ON/OFF
Audio EDID Selection	1 x Slide Switch - 2ch/5.1ch/AUTO
Selection	1 x Slide Switch - RS232 Bypass/Command mode
Long Reach Mode Switch	1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.46 kg (1.01lb)
Dimensions (L x W x H) with bracket	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	
Included Accessories	
Optional Accessories	
5 pcs	
1x Power Adapter; 4x Foot Pads; 1x RS-232 Terminal Block	
Please refer to 9-57	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE814A HDMI HDBaseT Extender with Dual Output

(4K@100m) (HDBaseT Class A) 100 m



Features

- **HDBaseT Connectivity** – Extends HDMI signals to one local and two remote displays up to 100 m over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- **ATEN EDID Technology** – When both transmitter and receiver sides are connected, VE814A adopts the EDID values of the display connected to the VE814AT for high-quality output
- Bi-directional RS-232 channel transmits signals
- Two IR channels for IR signal transmission
- Allows Ethernet communication with the Ethernet pass-through port
- Rack- mountable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat5e/6 at resolutions up to 1080p

Specifications

Function		VE814AR	VE814AT
Video Input			
Interfaces	N/A		1 x HDMI Type A Female (Black)
Impedance	N/A		100 Ω
Max. Distance	N/A		1.8 m
Video Output			
Interfaces	2 x HDMI Type A Female (Black)		1 x HDMI Type A Female (Black)
Impedance	100 Ω		100 Ω
Video			
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)		10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz		340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible Consumer Electronics Control (CEC)		HDMI (3D, Deep Color, 4K); HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)		Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio			
Input	N/A		1 x HDMI Type A Female (Black)
Output	2 x HDMI Type A Female (Black)		1 x HDMI Type A Female (Black)
Connectors			
Unit to Uni	1x RJ-45 Female		1x RJ-45 Female
Power	1 x DC Jack (Black) with locking		1 x DC Jack (Black) with locking
Control			
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control		Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	2 x Mini Stereo Jack Female (Black)		2 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female		1 x RJ-45 Female
Switches			
Long Reach Mode Switch	1 x Slide Switch - ON/OFF		1 x Slide Switch - ON/OFF
Firmware Upgrade	1 x Slide Switch - ON/OFF		1 x Slide Switch - ON/OFF
Power Consumption	DC5V: 5.09W		DC5V: 7.87W
Environmental			
Operating Temperature	0 - 40°C		0 - 40°C
Storage Temperature	-20 - 60°C		-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing		0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal		Metal
Weight	0.47 kg (1.04 lb)		0.45 kg (0.99 lb)
Dimensions (L x W x H) with bracket	14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)		14.02 x 12.30 x 3.00 cm (5.52 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)		13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs		5 pcs
Included Accessories	1x IR Transmitter Cable; 1x IR Receiver Cable; 2x RS-232 Terminal Blocks; 2 Power Adapters		
Optional Accessories	Please refer to 9-58		

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE813A HDMI/USB HDBaseT Extender with ExtremeUSB® (4K@100m) (HDBaseT Class A) 100 m



Features

- **HDBaseT Connectivity** – extends HDMI signals over a long distance via single 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- **ExtremeUSB®** – supports USB 2.0 high speed connections to provide touch panel control and file transfer functionality
- **USB 2.0 Support** – connects devices such as a keyboard, mouse, flash drive, printer, touch panel, USB 1.1 web camera and other USB devices that require moderate amounts of bandwidth
- **Rack-mountable**

Specifications

Function	VE813AR	VE813AT
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Control		
USB Channel	3 x USB Type A Female Transfer Rate: USB 2.0 (Up to 40 Mbps)	1 x USB Type B Female Transfer Rate: USB 2.0 (Up to 40 Mbps)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption		
	DC5V: 5.75W Note: For the VE813AR, power consumption will be 13.25W when all 3 USB connectors are occupied.	DC5V: 5.75W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.62 kg (1.37 lb)	0.61 kg (1.34 lb)
Dimensions (L x W x H)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)	18.20 x 11.61 x 2.87 cm (7.17 x 4.57 x 1.13 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x HDMI Cable; 1 USB Cable; 2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 9-58	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE811 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A) 100 m



Features

- **HDBaseT Connectivity** – extends HDMI signals up to 100m via a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- HDMI (3D, Deep Color, 4K)
- HDCP 2.2 compatible
- Built-in 8KV/ 15 KV ESD protection
- Wide screen format
- Plug-and-play
- Rack-mountable

Specifications

Function	VE811R	VE811T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Firmware Upgrade	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Switches		
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF
Power Consumption	DC5V: 3.77W	DC5V: 3.84W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.17 kg (0.37 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H) with bracket	8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)	8.64 x 7.30 x 2.47 cm (3.4 x 2.87 x 0.97 in.)
Dimensions (L x W x H) without bracket	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)	8.20 x 5.20 x 2.37 cm (3.23 x 2.05 x 0.93 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-58	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE1812 HDMI HDBaseT Extender with POH (4K@100m) (HDBaseT Class A) 100 m



Features

- **HDBaseT Connectivity** – extends HDMI signals over a long distance via one Cat 5e / 6 / 6a cable
- **Supports HDBaseT Long Reach Mode** – up to a maximum range of 150 meters @ 1080p
- 4k x 2k HDMI transmission distance up to 100m over Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Anti-jamming** – resists signal interference during highquality video transmission using HDBaseT technology
- **POH (Power over HDBaseT)** – supplies power over a long distance via single Cat 6/6a cable
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – two way IR protocol delivery by one IR port; IR transmission is processed one direction at a time
- Rack mountable

Specifications

Function		VE1812R	VE1812T
Video Input			
Interfaces	N/A	1 x HDMI Type A Female (Black)	
Impedance	N/A	100 Ω	
Max. Distance	N/A	1.8 m	
Video Output			
Interfaces	1 x HDMI Type A Female (Black)	N/A	
Impedance	100 Ω	N/A	
Video			
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)	
Max. Pixel Clock	340 MHz	340 MHz	
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	
Audio			
Input	N/A	1 x HDMI Type A Female (Black)	
Output	1 x HDMI Type A Female (Black)	N/A	
Connectors			
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female	
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking	
Control			
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)	
Switches			
Long Reach Mode Switch	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF	
Firmware Upgrade	1 x Slide Switch - ON/OFF	1 x Slide Switch - ON/OFF	
Power Consumption	DC5V: 4.26W	DC5V: 3.2W	
Environmental			
Operating Temperature	0 - 40°C	0 - 40°C	
Storage Temperature	-20 - 60°C	-20 - 60°C	
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	
Physical Properties			
Housing	Metal	Metal	
Weight	0.45 kg (0.99 lb)	0.47 kg (1.04 lb)	
Dimensions (L x W x H) with bracket	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	
Carton Lot	5 pcs	5 pcs	
Included Accessories	1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x RS-232 Terminal Blocks		
Optional Accessories	Please refer to 9-58		

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE812 HDMI HDBaseT Extender (4K@100m) (HDBaseT Class A) 100 m



Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

Specifications

Function	VE812R	VE812T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	Up to 340 MHz	Up to 340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a); 1080p@100m *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 5.06W	DC5.3V: 2.22W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.41 kg (0.9 lb)	0.40 kg (0.88 lb)
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 9-58	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE801 HDMI HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B)
VE802 HDMI HDBaseT-Lite Extender with POH (4K@40m) (HDBaseT Class B)

70 m



Features

- **HDBaseT Connectivity** – extends an HDMI connection over a long distance via single Cat 6/6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- **POH (Power over HDBaseT)** – supplies power over a long distance via single Cat 6/6a cable (VE802)
- Bi-directional RS-232 channel transmits signals over Cat 6/6a cable to control a display or other device (VE802)
- **Bi-directional IR channel** for IR signal control; IR transmission is processed one direction at a time (VE802)
- Rack-mountable

Specifications

Function	VE801R / VE802R	VE801T / VE802T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Control		
RS-232	VE802R: Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	VE802T: Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	VE802R: 1 x Mini Stereo Jack Female (Black)	VE802T: 1 x Mini Stereo Jack Female (Black)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power consumption	VE801R: DC5V: 4.24W / VE802R:DC5V: 4.37W	VE801T: DC5V: 1.86W / VE802T: DC5V: 12.28W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	VE801R: 0.25 kg (0.55 lb) VE802R: 0.46 kg (1.01 lb)	VE801T: 0.24 kg (0.53 lb) VE802T: 0.44 kg (0.97 lb)
Dimensions (L x W x H) with bracket	VE801: 9.86 x 8.70 x 3.00 cm (3.88 x 3.43 x 1.18 in.) VE802: 14.04 x 12.30 x 3.00 cm (5.53 x 4.84 x 1.18 in.)	
Dimensions (L x W x H) without bracket	VE801: 9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.) VE802: 13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)	
Carton Lot	5 pcs	5 pcs
Included Accessories	VE801: 2x Power Adapters VE802: 1x Power Adapter; 1x IR Transmitter; 1x IR Receiver; 2x Terminal Blocks	
Optional Accessories	Please refer to 9-58	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE901 DisplayPort HDBaseT-Lite Extender (4K@40m) (HDBaseT Class B) 70 m

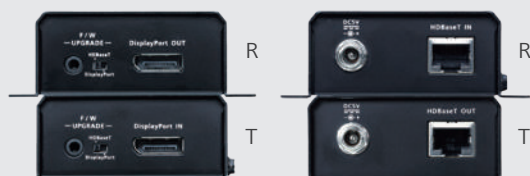


Features

- **HDBaseT Connectivity** – extends a DVI connection over a long distance via single 5e / 6a cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- DisplayPort receiver provides 3.3V/500mA of output power
- Rack-mountable

Front

Rear



Specifications

Function	VE901R	VE901T
Video Input		
Interfaces	N/A	1 x DisplayPort Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.5 m
Video Output		
Interfaces	1 x DisplayPort Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	297MHz	297MHz
Compliance	DisplayPort (Deep Color, 4K) HDCP Compatible	DisplayPort (Deep Color, 4K) HDCP Compatible
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a); 1080p@60m (Cat 5e/6) / 70m (Cat 6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	N/A	1 x DisplayPort Female (Black)
Output	1 x DisplayPort Female (Black)	N/A
Connectors		
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power Consumption		
	DC5V: 5.72W	DC5V: 2.84W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.27 kg (0.59 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H)	9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)	9.77 x 8.70 x 3.00 cm (3.85 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-58	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE601 DVI HDBaseT-Lite Extender (1080p@70m) (HDBaseT Class B) 70 m



Features

- **HDBaseT Connectivity** – extends a DVI connection over a long distance via a single Ethernet cable
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- Rack-mountable

Specifications

Function	VE601R	VE601T
Video Input		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
Video Output		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	DVI (3D, Deep Color) HDCP compatible	DVI (3D, Deep Color) HDCP compatible
Max. Resolutions / Distance	Up to 1920 x 1200@35 m (Cat 5e/6) / 40 m (Cat 6a/ ATEN 2L-2910 Cat 6); 1080p@60 m (Cat 5e/6) / 70 m (Cat 6a/ ATEN 2L-2910 Cat 6)	Up to 1920 x 1200@35 m (Cat 5e/6) / 40 m (Cat 6a/ ATEN 2L-2910 Cat 6); 1080p@60 m (Cat 5e/6) / 70 m (Cat 6a/ ATEN 2L-2910 Cat 6)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x DC Jack with locking	1 x DC Jack with locking
Power Consumption	DC5V: 4.36W	DC5V: 1.84W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.25 kg (0.55 lb)	0.25 kg (0.55 lb)
Dimensions (L x W x H)	10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)	10.20 x 8.70 x 3.00 cm (4.02 x 3.43 x 1.18 in.)
Dimensions (L x W x H) without bracket	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)	9.42 x 6.60 x 2.90 cm (3.71 x 2.6 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters	
Optional Accessories	Please refer to 9-59	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

Wall Plates



Why Choose ATEN Wall Plate Extenders?

The popularization of professional audio and video applications to enhance presentation efficiency has resulted in new ways of managing and delivering signals while concealing cables and other equipment. The convenience and elegance that only wall plate extenders provide enable you to immerse AV extensions into any application, such as on walls or tables, to fit any room décor. Experience this with the following advantages of Wall Plate Extenders:

- Conceal Cabling: Put bulky cabling and other installed equipment out of sight.
- Convenient Placement: Flexibly place signal input and output connections exactly where they are needed.
- Complimentary Design: Mount on any surface while simply blending in with the environment.

ATEN offers a range of Wall Plate Extenders that supports long distance transmissions, delivering reliable AV experiences in style while providing these additional advantages for your installations:



Convenient Installation

Support for US/decora, EU/MK wall plates offers comprehensive options across different regions



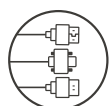
Superior Video Quality

Delivers superior video quality of up to 4K video, 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)



HDBaseT Support

Ensures high quality long distance video transmission of up to 4K@100m and 1080p@150m via single Cat 6 cable



Interface Conversion

Convert inputs to support popular digital output interfaces such as DVI, HDMI, and VGA.

VE2812EUT HDMI & VGA HDBaseT Transmitter with EU Wall Plate (4K@100m) (HDBaseT Class A)

VE2812UST HDMI & VGA HDBaseT Transmitter with US Wall Plate (4K@100m) (HDBaseT Class A)



Front (VE2812EUT)



Front (VE2812UST)



Side (VE2812EUT)



Side (VE2812UST)



Side (VE2812EUT)



Side (VE2812UST)



Features

- Extends HDMI or VGA signals over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- Designed to mount in a two-gang junction box
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Superior video quality:
 - HDMI: 4K at distance up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
 - VGA: 1600 x 1200 and 1920 x 1200 up to 100 m via a Cat 6a or ATEN 2L-2910 Cat 6 cable
- **HDBaseT Long Reach Mode** – up to 150 m via a single Cat 5e/6 cable at resolutions up to 1080p
- Supports Auto Switch – allows the VE2812EUT / VE2812UST automatically switches to a newly plugged-in source
- Functions as a switch or a converter
 - A Switch: Connects two sources (HDMI or VGA)
 - A Converter: Applies receivers with different interface (DVI, DisplayPort, or HDMI)
- Supports RS-232 channel transmission or command mode for source switch control
- Compatible Receivers – VE1812R, VE812R, VE814AR, VE811R, VE801R, VE802R, VE601R, VE901R or future ATEN HDBaseT Receivers
- Plug-and-play
- Built-in 8KV / 15 KV ESD protection
- LED indication of sources and device status

Specifications

Function	VE2812EUT	VE2812UST
Video Input		
Interfaces	1 x HDMI Type A Female (Black) 1 x HDB-15 (VGA) Female (Blue)	1 x HDMI Type A Female (Black) 1 x HDB-15 (VGA) Female (Blue)
Impedance	HDMI: 100 Ω HDB-15 (VGA): 75 Ω	HDMI: 100 Ω HDB-15 (VGA): 75 Ω
Max. Distance	1.8 m (HDMI)	1.8 m (HDMI)
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	HDMI: Up to 4K@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@100m (Cat 5e/6/6a) VGA: Up to 1920x1200 & 1600x1200@70m (Cat 5e/6) / 100m (Cat 6a/ATEN 2L-2910 Cat6); 1920x1080@100m (Cat 5e/6/6a) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)
Connectors		
Unit To Unit	1 x RJ-45 Female	1 x RJ-45 Female
Power	1 x Terminal Block, 2 pole (Green)	1 x Terminal Block, 2 pole (Green)
Control		
RS-232	Connector: 1 x Terminal Block, 3 pole (Green) Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control	Connector: 1 x Terminal Block, 3 pole (Green) Baud Rate: 19200, Data Bits:8, Stop Bits:1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power Consumption	DC5V: 3.14W	DC5V: 3.04W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.35 kg (0.77 lb)	0.29 kg (0.64 lb)
Dimensions (L x W x H)	5.00 x 10.80 x 5.17 cm (1.97 x 4.25 x 2.04 in.)	10.42 x 8.79 x 5.19 cm (4.1 x 3.46 x 2.04 in.)
Faceplate Dimension (L x W x H)	8.60 x 15.10 x 1.35 cm (3.39 x 5.94 x 0.53 in.)	11.43 x 11.43 x 0.60 cm (4.5 x 4.5 x 0.24 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x 3 Pin RS-232 Terminal Block, 1x 2 Pin Power Terminal Block, 1x Mounting Kit, 1x Power Adapter	1x 3 Pin RS-232 Terminal Block, 1x 2 Pin Power Terminal Block, 1x Faceplate, 1x Power Adapter
Optional Accessories	Please refer to 9-57	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE1801EUT HDMI HDBaseT-Lite Transmitter with EU Wall Plate (4K@40m) (HDBaseT Class B)

VE1801UST HDMI HDBaseT-Lite Transmitter with US Wall Plate (4K@40m) (HDBaseT Class B)



Front (VE1801EUT)



Rear



Front (VE1801UST)



Rear



Features

- Extends HDMI signals with superior video quality over a single Cat 5e/6/6a or ATEN 2L-2910 Cat 6 cable
- 4K up to 40 m
- 1080p up to 70 m
- HDMI 1.4 (3D, Deep color, 4K); HDCP 2.2 compliant
- Designed to mount in a one-gang junction box
- Supports RS-232 channel transmission
- **HDBaseT Anti-jamming** – resists signal interference during high-quality video transmission using HDBaseT technology
- LED indication of device status
- Supports wide screen format
- Built-in 8KV / 15 KV ESD protection
- Plug-and-play

Specifications

Function	VE1801EUT	VE1801UST
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Max. Distance	3 m	3 m
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps per lane)	10.2 Gbps (3.4 Gbps per lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)	HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6) *4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Audio		
Input	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
RS-232 Channel	1 x Terminal Block, (3 pole, Green)	1 x Terminal Block, (3 pole, Green)
Connectors		
Power	1 x Terminal Block (2 pole, Green)	1 x RJ-45 Female
Unit To Unit	1 x RJ-45 Female	1 x Terminal Block (2 pole, Green)
Power Consumption	DC5V: 1.75W	DC5V: 1.75W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.17 kg (0.37 lb)	0.17 kg (0.37 lb)
Dimensions (L x W x H)	6.86 x 4.44 x 4.10 cm (2.70 x 1.75 x 1.61 in.)	10.41 x 4.44 x 4.10 cm (4.10 x 1.75 x 1.61 in.)
Faceplate Dimension (L x W x H)	8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	N/A
Carton Lot	5 pcs	5 pcs
Included Accessories	4 x Foot Pads; 1 x Faceplate; 2 x Pan Head Screws; 4 x PF Screws; 1 x RS-232 Terminal Block (3-pin); 1 x Power Terminal Block (2-pin); 1 x Power Adapter	1 x Power Adapter; 1 x RS-232 Terminal Block (3-pin); 1 x Power Terminal Block (2-pin)
Optional Accessories	Please refer to 9-59	

Note: We strongly recommend that you use ATEN 2L-2910 Cat 6 cable for best product performance.

VE806 / VE807 HDMI/Audio Cat 5 Extender with US / MK Wall Plate (1080p@40m)



60 m

PRO

Front



R

VE806R



T

VE806T



VE806



VE807

Rear



R

VE806R



T

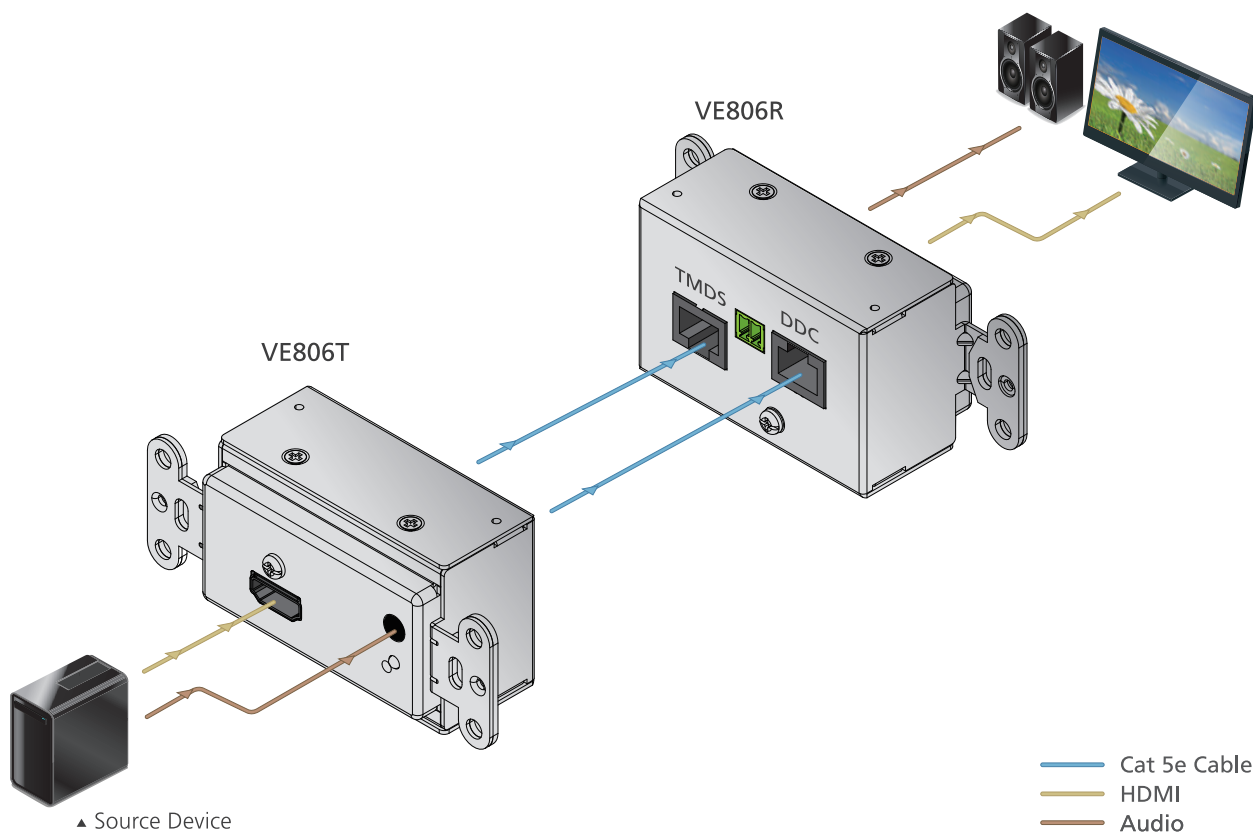
VE806T

Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power*
- Superior video quality up to 1080p @60 Hz (40 m) and 1080i @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
- VE806: Decora type design for US
- VE807: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: *A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

Setup > VE806T + VE806R



Specifications

Function	VE806R / 807R	VE806T / 807T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP Compatible	HDMI (3D, Deep Color) HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Power	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Power Consumption		
VE806R:DC9V:2.28W VE807R:DC9V:0.81W		VE806T:DC9V:2.33W VE807T:DC9V:1.35W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	VE806R: 0.17 kg (0.37 lb) VE807R: 0.18 kg (0.4 lb)	VE806T: 0.17 kg (0.37 lb) VE807T: 0.18 kg (0.4 lb)
Dimensions (L x W x H)	VE806R: 10.41 x 4.44 x 4.00 cm (4.1 x 1.75 x 1.57 in.) VE807R: 6.86 x 4.44 x 4.00 cm (2.7 x 1.75 x 1.57 in.)	VE806T: 10.41 x 4.44 x 4.00 cm (4.1 x 1.75 x 1.57 in.) VE807T: 6.86 x 4.44 x 4.00 cm (2.7 x 1.75 x 1.57 in.)
Faceplate Dimension (L x W x H)	VE807R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE807T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Terminal Block (VE806/VE807); 1x Power Adapter (VE806/VE807); 2x MK Type Wall Plate Covers (VE807); 8x Screw Covers (VE807); 1x Screw kit (VE807)	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

*Cables with different lengths are available, please refer to 12-5.

VE606 / VE607 DVI/Audio Cat 5 Extender with US / MK Wall Plate (1920 x 1200@40m)



60 m PRO

Front



R



T

VE606R

VE606T



VE606

VE607

Rear



R



T

VE606R

VE606T

Features

- Uses two Cat 5e/6 cables to connect the local and remote units – one to transmit video and audio; the other to supply power*
- Uses a second Cat 5e cable for dual link signals
- Superior video quality up to 1920 x 1200 @ 60 Hz (40 m) and 1280 x 1024 @ 60 Hz (60 m)
- Supports 8-segment equalization adjustment via switch
- Wall-mountable
 - VE606: Decora type design for US
 - VE607: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: *A second Cat 5e/6 cable connection is required to remotely power on either the transmitter or receiver and also to bypass EDID and HDCP signals.

Specifications

Function	VE606R / 607R	VE606T / 607T
Video Input		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1920 x 1200@40m; 1280 x 1024@60m	Up to 1920 x 1200@40m; 1280 x 1024@60m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Power	1 x Terminal Block (Green)	1 x Terminal Block (Green)
Power Consumption		
	VE606R:DC9V:2.26W VE607R:DC9V:0.81W	VE606T:DC9V:2.31W VE607T:DC9V:1.35W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.18 kg (0.4 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	VE606R: 10.41 x 4.44 x 4.34 cm (4.1 x 1.75 x 1.71 in.) VE607R: 6.86 x 4.44 x 4.34 cm (2.7 x 1.75 x 1.71 in.)	VE606T: 10.41 x 4.44 x 4.34 cm (4.1 x 1.75 x 1.71 in.) VE607T: 6.86 x 4.44 x 4.34 cm (2.7 x 1.75 x 1.71 in.)
Faceplate Dimension (L x W x H)	VE607R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE607T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Terminal Block (VE606/VE607); 1x Power Adapter (VE606/VE607); 2x MK Type Wall Plate Covers (VE607); 8x Screw Covers (VE607); 1x Screw kit (VE607)	
Optional Accessories	Please refer to 9-59	

VE156 / VE157 VGA/Audio Cat 5 Extender with US / MK Wall Plate (1280 x 1024 @150 m)

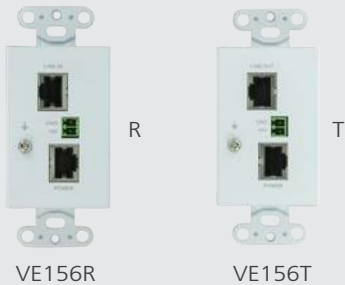


150 m PRO

Front



Rear



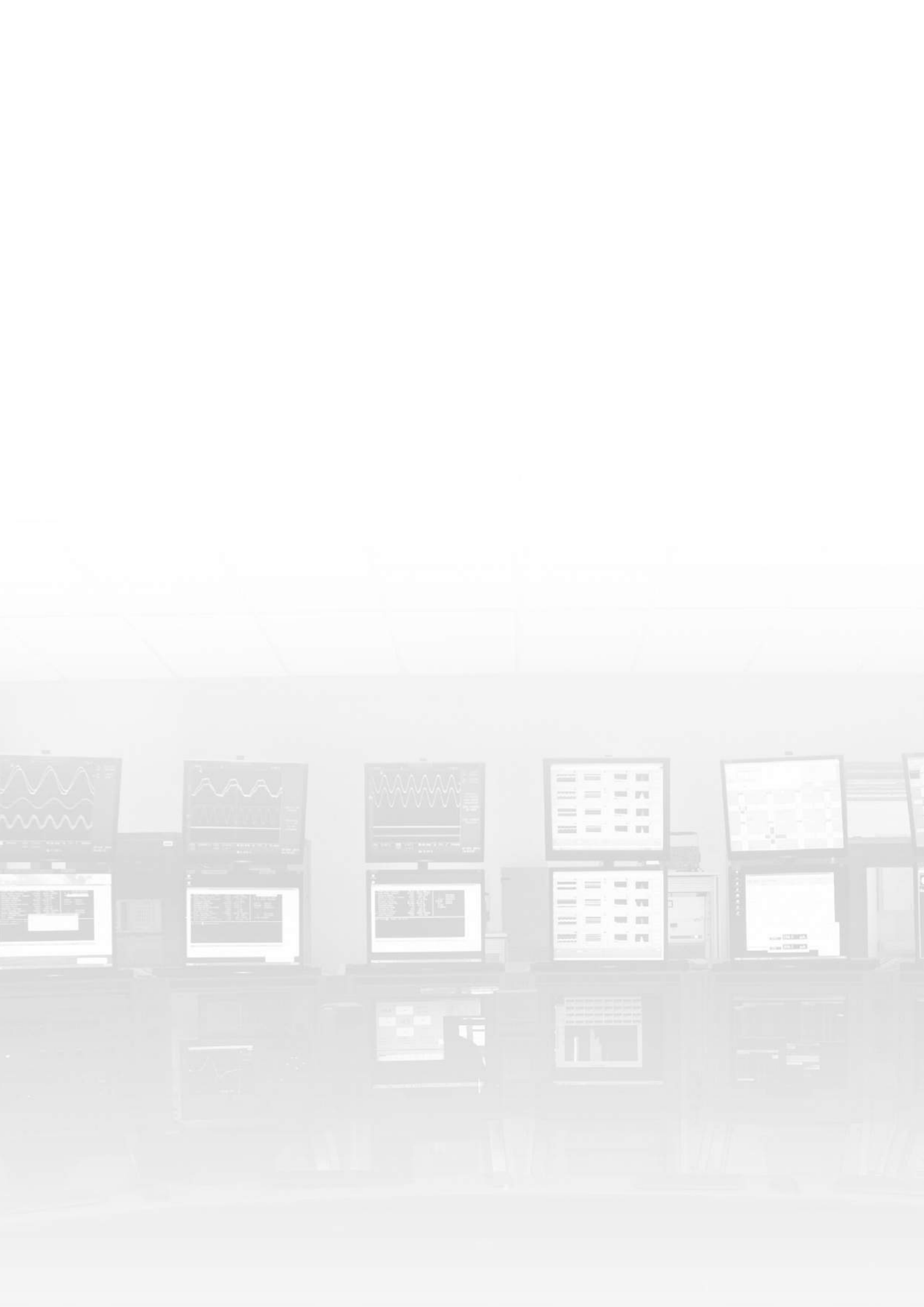
Features

- Uses two Cat 5e/6 cables to connect the local and remote units - one to transmit video and audio; the other to supply power*
- Superior video quality up to 1920 x 1200 @ 60 Hz (30 m) and 1280 x 1024 @ 60 Hz (150 m)
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Wall-mountable
 - VE156: Decora type design for US
 - VE157: MK type design for EU
- LED indication of power and connection status
- Hot-pluggable

Note: *A second Cat 5e cable connection is required to remotely power on either the transmitter or receiver.

Specifications

Function		VE156R / 157R	VE156T / 157T
Video Input			
Interfaces	N/A	1 x HDB-15 Female (Blue)	
Impedance	N/A	100 Ω	
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	N/A	
Impedance	100 Ω	N/A	
Video			
Max. Bandwidth	300 MHz	300 MHz	
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m	
Audio			
Input	N/A	1 x Mini Stereo Jack Female (Green)	
Output	1 x Mini Stereo Jack Female (Green)	N/A	
Connectors			
Power	1 x Terminal Block (Green)	1 x Terminal Block (Green)	
Power Consumption		VE156R: DC9V: 1.65W VE157R: DC9V: 0.95W	VE156T: DC9V: 0.95W VE157T: DC9V: 1.65W
Environmental			
Operating Temperature	0 - 50°C	0 - 50°C	
Storage Temperature	-20 - 60°C	-20 - 60°C	
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	
Physical Properties			
Housing	Metal	Metal	
Weight	0.18 kg (0.4 lb)	0.18 kg (0.4 lb)	
Dimensions (L x W x H)	VE156R: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.) VE157R: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)	VE156T: 10.41 x 4.44 x 4.28 cm (4.1 x 1.75 x 1.69 in.) VE157T: 6.86 x 4.44 x 4.28 cm (2.7 x 1.75 x 1.69 in.)	
Faceplate Dimension (L x W x H)	VE157R: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	VE157T: 8.60 x 8.60 x 1.60 cm (3.39 x 3.39 x 0.63 in.)	
Carton Lot	5 pcs	5 pcs	
Included Accessories	1x Terminal Block (VE156/VE157); 1x Power Adapter (VE156/VE157); 2x MK Type Wall Plate Covers (VE157); 8x Screw Covers (VE157); 1x Screw kit (VE157)		
Optional Accessories	Please refer to 9-59		



Wireless



Location Flexibility

Wireless WHDI technology provides line-of-sight transmission to receivers up to 30m away. Place in a central location or on a movable platform. Keep sources hidden from sight.



Plug-and-Play

A software independent solution with no extra software/driver installation needed. Connect your Full HD displays and source devices to set up a multimedia environment with 5.1 channel surround sound, controlled by infrared.

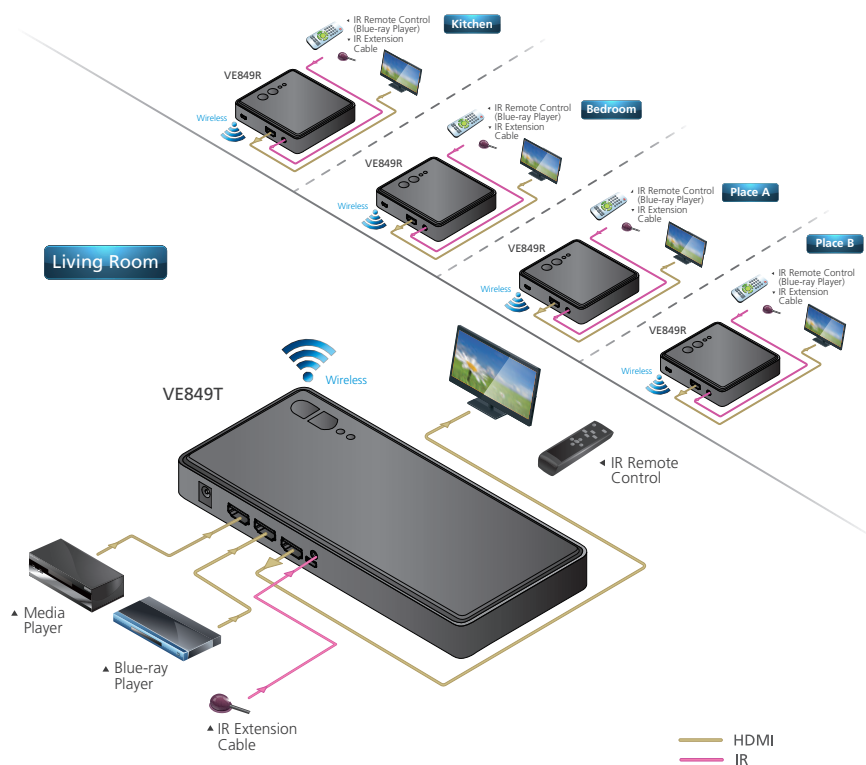


High Performance & Security

The WHDI protocol ensures a bandwidth of 6.75 Gbps, with less than 1ms latency, while its 5 GHz proprietary wireless transmission provides higher protection against hackers in comparison to Wifi. Even more, there is AES 128 bit encryption plus HDCP to further guarantee secure content transmission.

9

Setup > VE849



VE819 HDMI Dongle Wireless Extender (1080p@10m) 10 m



Features

- Connects 1 HDMI input to 1 HDMI output via wireless extension up to 10 m*
- IR remote control switches connection between multiple HDMI dongle transmitters
- WHDI™ Technology - Low latency <1ms
- Uncompressed video transmission
- Extends signals up to 10 m, up to 7 m with superior image quality
- Plug-and-play

Note: *Distance may vary depending on the actual environment; solid objects such as steel, concrete or brick may cause interference and shorten the transmission distances.

Specifications

Function	VE819R	VE819T
Video Input		
Interfaces	N/A	1 x HDMI Type A Male (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	N/A
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p / 60Hz@10m (Line of Sight)	Up to 1080p / 60Hz@10m (Line of Sight)
Audio		
Input	N/A	1 x HDMI Type A Male (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Control		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	N/A
Connectors		
Power	1 x Mini USB Jack	1 x Mini USB Jack
Power Consumption		
	DC5V: 7.5W (Mini USB)	DC5V (Mini USB)
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.13 kg (0.29 lb)	0.03 kg (0.07 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.33 cm (3.74 x 3.74 x 1.31 in.)	3.00 x 7.03 x 1.75 cm (1.18 x 2.77 x 0.69 in.)
Carton Lot		
	5 pcs	5 pcs
Included Accessories		
	1x Mini USB to USB Cable; 2x Mini USB Power Adapters; 1x HDMI Cable; 1x Remote Control Unit with 2 AAA Batteries; 1x IR Receiver cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available, please refer to 12-5.

VE849 Multicast HDMI Wireless Extender (1080p@30m) 30 m



Front



Rear



Features

- Connects 2 HDMI inputs to 5 HDMI outputs (1 local + 4 remote) via wireless extension up to 30m*
- **Multicast signal** – 1 transmitter streams HDMI transmissions up to 4 receivers simultaneously
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology - Low latency <1ms
- Uncompressed video transmission

Note*: Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distances.

Specifications

Function	VE849R	VE849T
Video Input		
Interfaces	N/A	2 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m (Line of Sight)	Up to 1080p@30m (Line of Sight)
Audio		
Input	N/A	2 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	1 x 2.5mm Mini Stereo Jack Female (Black)
Connectors		
Power	1 x DC Jack (Mini USB)	1 x DC Jack
Power Consumption		
	DC5V: 7.5W (Mini USB)	DC5V: 10W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.13 kg (0.29 lb)	0.21 kg (0.46 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.50 cm (3.74 x 3.74 x 1.38 in.)	18.00 x 9.50 x 3.00 cm (7.09 x 3.74 x 1.18 in.)
Carton Lot		
	5 pcs	5 pcs
Included Accessories		
	VE849T: 1x IR Remote Control with 2 AAA Batteries; 1x IR Blaster Cable; 1x Power Adapter VE849R: 1x Mini USB Power Adapter; 1x IR Receiver Cable; 1x HDMI Cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available, please refer to 12-5.

VE829 5x2 HDMI Wireless Extender (1080p@30m) 30 m



Features

- 5 x 2 Matrix - allows you to switch and independently select any of 5 sources (4 x HDMI connectors, 1 x component connector) between 2 HDTVs
- USB HID ports on the transmitter and receiver units enable wireless keyboard connectivity for control over connected computer
- IR Return Channel – enables wireless control of input sources from remote site
- WHDI™ Technology – Low latency < 1ms
 - Uncompressed video transmission
- 2 HDMI output displays – different source contents can be displayed at the two displays (one at the local side and the other at the remote side)

Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

Specifications

Function	VE829R	VE829T
Video Input		
Interfaces	N/A	4 x HDMI Type A Female (Black); 1 x Component Video Female (Blue/Green/Red)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m (Line of Sight)	Up to 1080p@30m (Line of Sight)
Audio		
Input	N/A	4 x HDMI Type A Female (Black); 1 x Component Audio Female (Red/White)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
IR	1 x 2.5mm Jack Female (Black)	1 x 2.5mm Jack Female (Black)
Connectors		
Power	1 x DC Jack (Mini USB)	1 x DC Jack
Power Consumption		
	DC5V: 6.7W (Mini USB)	DC5V: 9.5W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.13 kg (0.29 lb)	0.28 kg (0.62 lb)
Dimensions (L x W x H)	9.50 x 9.50 x 3.55 cm (3.74 x 3.74 x 1.40 in.)	23.40 x 6.65 x 3.25 cm (9.21 x 2.62 x 1.28 in.)
Carton Lot		
	5 pcs	5 pcs
Included Accessories		
	2x Remote Controls with batteries; 1x Component Adapter Cable; 1x IR Blaster Cable (VE829T); 1x IR Sensor Extender Cable (VE829R); 2x Power Adapters; 1x HDMI Cable	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available, please refer to 12-5.

VE809 HDMI Wireless Extender (1080p@30m) 30 m



Features

- Connects 2 HDMI inputs to 2 HDMI outputs (1 local + 1 remote) via wireless extension
- Transmits video content from Blu-ray DVD player, HD cable box or other HDMI devices wirelessly
- A built-in IR receiver for remote control of input devices
- WHDI™ technology – Low latency < 1ms
– Uncompressed video transmission
- IR Return Channel – enables wireless control of input sources from remote site
- Plug-and-play

R Note: Transmission distance may vary upon environments; solid objects like steel, concrete, and brick may lead to shorter transmission distances.

T

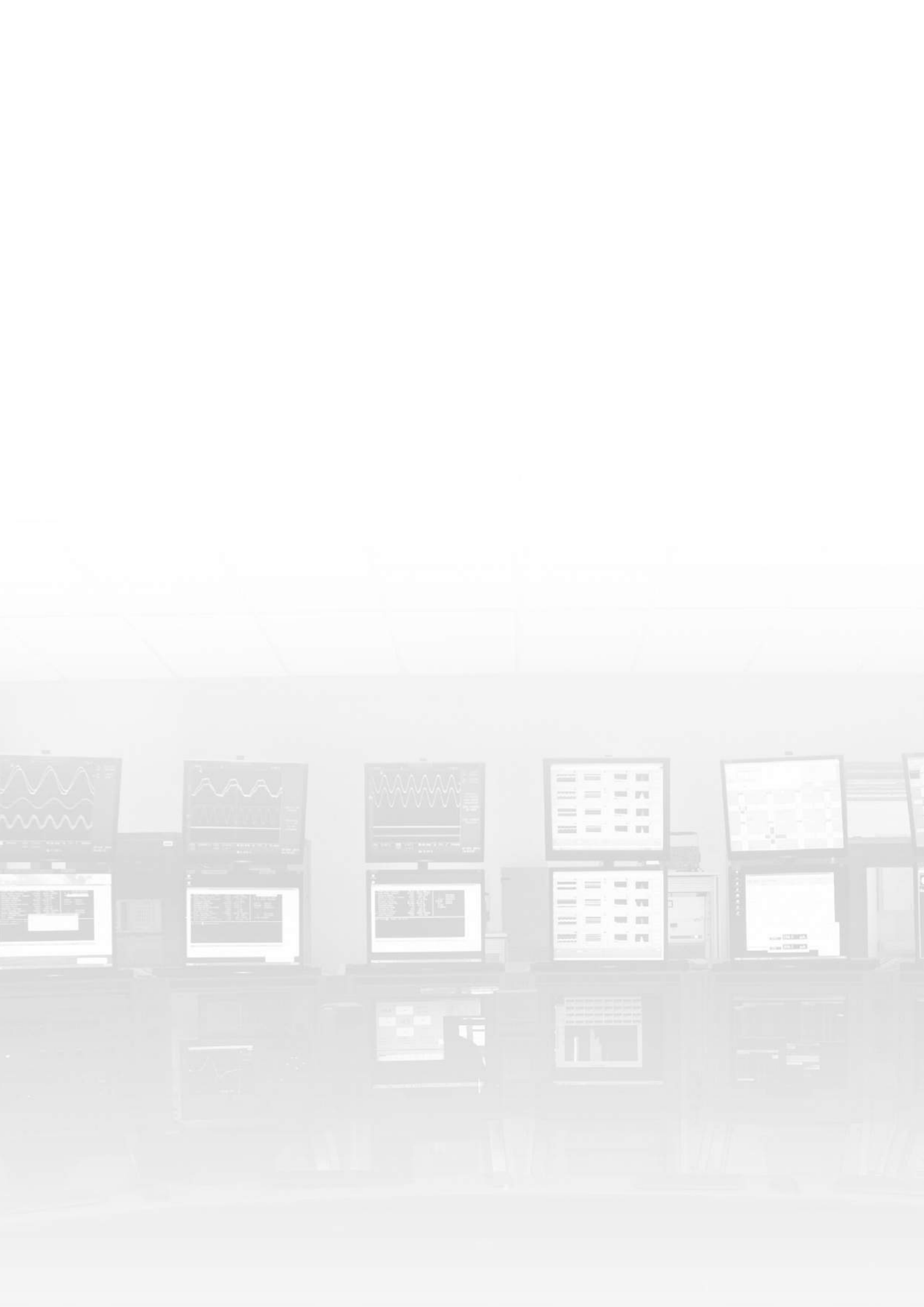
Specifications

Function	VE809R	VE809T
Video Input		
Interfaces	N/A	2 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Impedance	100 Ω	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@30m	Up to 1080p@30m
Audio		
Input	N/A	2 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Control		
IR	1 x 2.5mm Mini Stereo Jack Female (Black)	1 x 2.5mm Mini Stereo Jack Female (Black)
Connectors		
Power	1 x DC Jack (Mini USB)	1 x DC Jack
Power Consumption		
	DC5V: 7.84W	DC5V: 6.58W
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.33 kg (0.73 lb)	0.21 kg
Dimensions (L x W x H)	9.50 x 9.50 x 3.15 cm (3.74 x 3.74 x 1.24 in.)	18.20 x 9.65 x 3.15 cm (7.17 x 3.8 x 1.24 in.)
Carton Lot		
	5 pcs	5 pcs
Included Accessories		
	1x IR Remote Control; 1x IR Blaster Cable; 1x HDMI Cable ; 1x Mini USB; Power Adapter (VE809R); 1x Power Adapter (VE809T); 2x AAA Batteries	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available, please refer to 12-5.



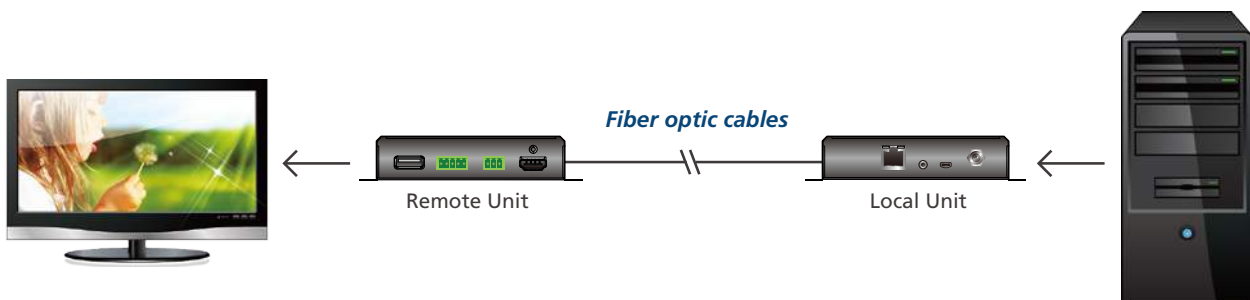
Optical / AOC



Optical Transmission

ATEN offers 4K HDMI fiber optic extender solutions that transmit 4K HDMI up to 10km and 1080p up to 20km and incorporate bi-directional RS-232 and IR channels.

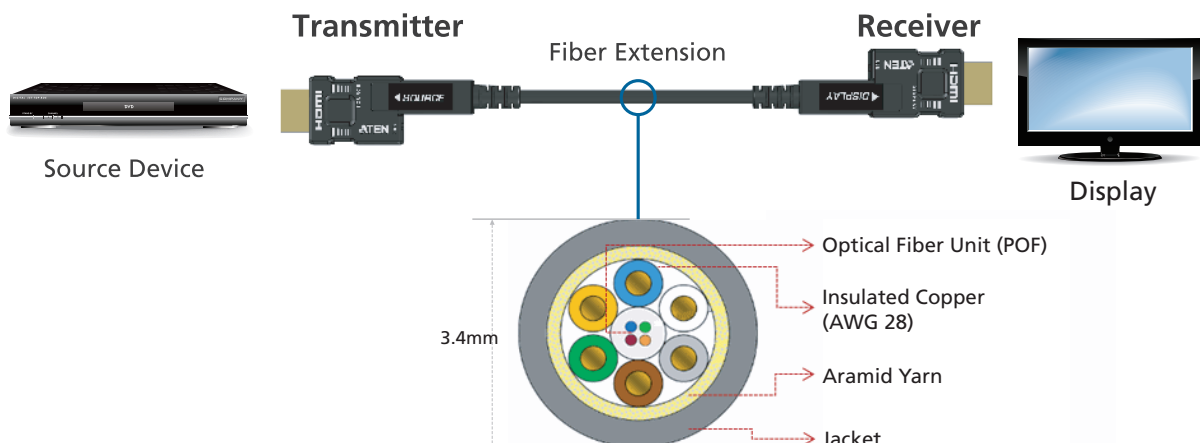
HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE



AOC Transmission

ATEN also offers a True 4K HDMI 2.0 Active Optical Cable which is EMI-resistant and fully compliant with HDCP 2.2 and HDMI 2.0, including 3D, deep color, and data rates up to 18 Gbps.

Setup > VE7832 / V7833 / VE7834 / VE7835



VE883 4K HDMI Optical Extender (4K@300m (K1, MM) / 10km (K2, SM))



300 m

10 km



Audio Channel



Features

- Extends HDMI video, stereo audio, IR control, and RS-232 control signals over duplex fiber optic cables
- Duplex optical fiber cables to connect the transmitter and receiver units
- HDCP 2.2 compatible
- Supports 4K signals up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0)
- Bi-directional IR channel for IR signal transmission; full-range IR transmission (30 - 56 KHz) is processed one direction at a time
- Bi-directional RS-232 channel transmits signals over optic cable to control a display or other device
- Supports USB 2.0 up to 25M Byte/s
- Supports 10M/100M/1G Ethernet channel
- Rack-mountable

Specifications

Function	VE883R	VE883T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 5 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	Up to 10 m	N/A
Video		
Max. Data Rate	10.2 Gbps (3.4 Gbps Per Lane)	10.2 Gbps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible	HDMI (3D, Deep Color, 4K); HDCP 2.2 Compatible
Max. Resolution	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)	4096x2160/3840x2160@60Hz (4:2:0); 4096x2160/3840x2160@30Hz (4:4:4)
Max. Distance	1 x SFP Module (Note) VE883K1: up to 300m (MM, OM3), (Black) VE883K2: up to 10km (SM), (Blue)	1 x SFP Module (Note) VE883K1: up to 300m (MM, OM3), (Black) VE883K2: up to 10km (SM), (Blue)
Audio		
Input	N/A	1 x Terminal Block, 5 pole (Green)
Output	1 x Terminal Block, 5 pole (Green)	N/A
Connectors		
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
Firmware Upgrade	1 x Micro USB (Type B) Female (Black)	1 x Micro USB (Type B) Female (Black)
Power	1 x DC Jack (Black) with locking	1 x DC Jack (Black) with locking
Power Consumption	DC5V: 6.77W	DC5V: 7.05W
Fiber Optics		
Data Rate	10.3 Gbps	10.3 Gbps
Wavelength	VE883K1: 850 nm; VE883K2: 1310 nm	VE883K1: 850 nm; VE883K2: 1310 nm
Fiber Type	VE883K1: Multi mode(MM), OM3, LC Duplex Type VE883K2: Single mode(SM), LC Duplex Type	VE883K1: Multi mode(MM), OM3, LC Duplex Type VE883K2: Single mode(SM), LC Duplex Type
Control		
USB Channel	1 x USB Type A Female (White)	1 x USB Type B Female (White)
RS-232 Channel	1 x Terminal Block, 3 pole (Green)	1 x Terminal Block, 3 pole (Green)
IR Channel	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
Ethernet Channel	1 x RJ-45 Female	1 x RJ-45 Female
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.64 kg (1.41 lb)	0.64 kg (1.41 lb)
Dimensions (L x W x H) with bracket	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)	16.94 x 14.69 x 3.00 cm (6.67 x 5.78 x 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters; 2x Terminal Block 3 Pole; 2x Terminal Block 5 Pole; 1x IR Receiver; 1x IR Emitter; 1x USB Cable; 2 xHDMI LockPro; 2x SFP Modules	
Optional Accessories	Please refer to 9-59	

Note: 1. It is recommended that you use Single Mode fibers that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications; Use Multi Mode fibers that conform to IEC 11801 (OM3) specifications.
2. The Device is class 1 laser product. It meets the safety regulations of IEC/EN 60825-1, 21 CFR 1040.10, and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

VE882 HDMI Optical Extender (1080p@600m)

VE892 HDMI Optical Extender (1080p@20km)

600 m
(VE882)

20 km
(VE892)

PRO



Front



Features

- Extends an HDMI / IR / RS-232 connection via one optical fiber cable
- Connects the local and remote units via one optical fiber cable
- Bi-directional RS-232 channel transmits signals over optical fiber cable to control a display or other device
- [Bi-directional IR channel](#) for IR signal control; full range IR transmission (30~56 KHz) is processed one direction at a time
- Hot-pluggable
- Rack-mountable

Rear (VE882)



Rear (VE892)



Specifications

Function	VE882R / VE892R	VE882T / VE892T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Max. Distance	N/A	Up to 1.8 m
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible	HDMI (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolution	Up to 1080p	Up to 1080p
Max. Distance	VE882R: 1 x SFP Module (Note) 600m @ Single mode (SM) fiber 300m @ OM3 Multi mode (MM) fiber VE892R: 1 x SFP Module (Note) 20km @ Single mode (SM) fiber	VE882T: 1 x SFP Module (Note) 600m @ Single mode (SM) fiber 300m @ OM3 Multi mode (MM) fiber VE892T: 1 x SFP Module (Note) 20km @ Single mode (SM) fiber
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Unit To Unit	1 x bi-directional SFP (LC)	1 x bi-directional SFP (LC)
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 4.69W	DC5.3V: 5.80W
Control		
IR Channel	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission	1 x Mini Stereo Jack Female (Black); 30~56 KHz full range transmission
RS-232 Channel	1 x Terminal Block, 3 pole (Green)	1 x Terminal Block, 3 pole (Green)
Environmental		
Operating Temperature	0 - 40°C	0 - 40°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.44 kg (0.97 lb)	0.44 kg (0.97 lb)
Dimensions (L x W x H)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)	14.17 x 10.30 x 3.00 cm (5.58 x 4.06 x 1.18 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x IR Transmitter; 1x IR Receiver; 1x Mounting Kit; 2x Power Adapters	
Optional Accessories	Please refer to 9-59	

Note: 1. Operating distance is approximate. A typical maximum distance may vary depending on factors such as fiber type, bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

2. It is recommended that you use a Single Mode optical fiber cable that conforms to IEC 60793- 2-50 B1.1 or ITU-T G.652.B specifications.

3. The VE882 supports OM3 optical fiber which can extend the transmission distance up to 300 meters.

VE7832 / VE7833 / VE7834 / VE7835 True 4K HDMI 2.0 Active Optical Cable (True 4K@15m/30m/60m/100m)



15 m (VE7832) 30 m (VE7833) 60 m (VE7834) 100 m (VE7835)



Features

- Supports resolution up to True 4K (4096 x 2160 @ 60Hz 4:4:4)
- HDMI 2.0 (3D, Deep Color, True 4K); HDCP 2.2 compliant
- Supports HDR
- Pluggable gender for easy installation
- Extends True 4K signals up to 100 m
- High data transfer rate of 18 Gbps
- Robust design – 500 N pulling strength & compression load resistance
- Additional power source is available via Micro USB cable
- Multi channel audio - Dolby TrueHD and DTS-HD
- Reduced EMI and RFI for lower noise interference
- Compliant with International Flame Retardant Standards : UL CMP-OF (Plenum)

Specifications

Function	VE7832	VE7833	VE7834	VE7835
Cable Length	15m	30m	60m	100m
Video Input				
Interfaces	1 x HDMI 19-pin Type-A Male (gold-plated) pluggable (Black) 1 x HDMI Type-D Male (Black)			
Video Output				
Interfaces	1 x HDMI 19-pin Type-A Male (gold-plated) pluggable (Black) 1 x HDMI Type-D Male (Black)			
Video				
Max. Data Rate	18 Gbps (6 Gbps per Channel)			
Max. Pixel Clock	600 MHz (Max.)			
Compliance	HDMI 2.0 (3D, Deep Color, 4K, HDR); HDCP 2.2 Color sub-sampling: 4:4:4 / 4:2:2 / 4:2:0 Color Depth: 30 / 36 / 48 bit			
Max. Resolutions	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)			
Audio				
Input	PCM 8-channel, Dolby Digital TrueHD, DTS-HD Master Audio			
Output	PCM 8-channel, Dolby Digital TrueHD, DTS-HD Master Audio			
Conductor				
Construction	6 x Insulated Copper wire (28 AWG); 4 x Fiber			
Jacketed				
Material	UL Plenum (CMP-OF)			
Certifications				
Certifications	Safety and Emission: CE / FCC / RoHS2 / UL CMP-OF Bend Radius: 6mm (Min.) Connector Pull Strength: Max. 10kg (100N) Compression Load Resistance: Max. 50kg (500N) Reduced EMI & RFI			
Notification				
Communication				
Signals	TMDS / HDCP 2.2 / EDID / CEC			
Power (Optional)	Optional power source: Micro USB to USB cable (45cm); 5V, 0.148A			
Cable Type	Cable Type: Hybrid optical with fiber and copper wire HDMI Standards: High Speed HDMI Cable (HDMI 2.0)			
Power Consumption	DC5.3V: 0.63W	DC5.3V: 0.63W	DC5.3V: 0.63W	DC5.3V: 0.63W
Environmental				
Operating Temperature	0 - 50°C			
Storage Temperature	-20 - 70°C			
Humidity	0 - 85% RH, Non-Condensing			
Physical Properties				
Cable Outer Dimension	Cable Outer Diameter: 3.4mm (± 0.2mm)			
Conductor Gauge	Copper wire (28 AWG)			
Conductor Material	Copper			
Housing	Connector Case: ABS (Acrylonitrile Butadiene Styrene)			
Weight	0.28 kg (0.62 lb)	0.50 kg (1.1 lb)	1.00 kg (2.2 lb)	1.64 kg (3.61 lb)
Carton Lot	10 pcs	10 pcs	5 pcs	5 pcs
Included Accessories	1x Wiring Tool; 2x Screws; 1x Micro USB to USB Cable; 1x Installation Notice			

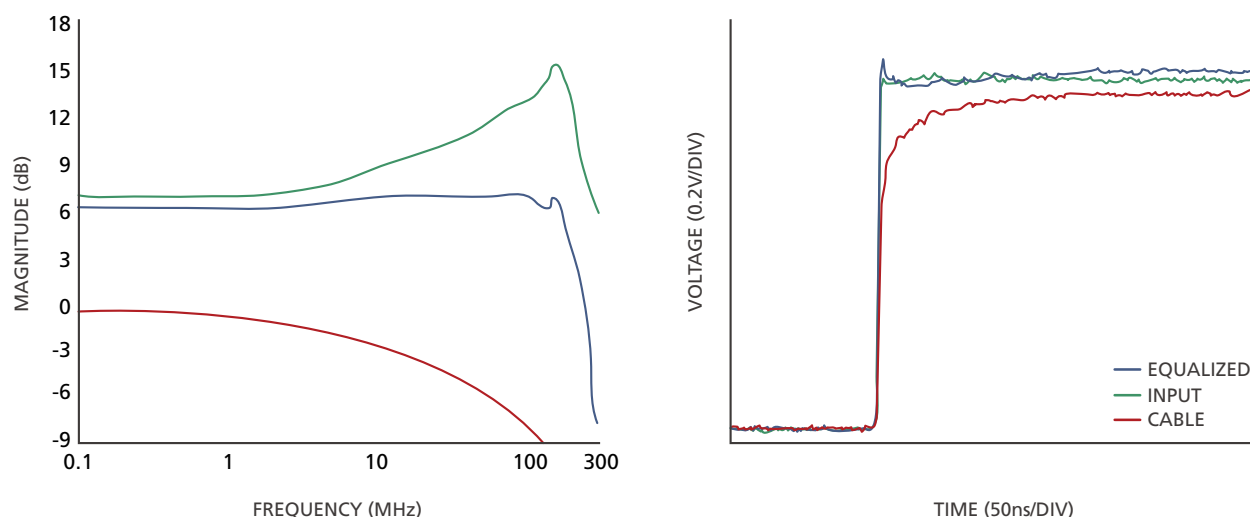
More Extender Solutions



Cat 5/Cat 6 Extenders

ATEN provides a wide range of long distance extension solutions utilizing equalizer technology that connect via Cat5e/6/6a cables, including HDMI, HDMI/USB, HDMI/IR, Mini DVI, Dual Link DVI with Audio, VGA, VGA with Audio, and VGA/Audio/RS-232 models.

For high speed signals, such as DVI and HDMI, there is serious decay after long-distance transmission. Equalizer technology compensates for signal loss at various frequencies, with higher frequency signals decaying more after long-distance transmission, as shown below. ATEN Cat 5/Cat 6 extenders use equalizer technology to recover the signal and bring the video quality back to normal.



Boosters

ATEN Boosters amplify and transmit signals to increase distances in your AV installation. Solutions that support True 4K HDMI up to 20m/1080P up to 40m, and 1280x1024 VGA up to 70m, as well as other DVI and VGA models, are available.

VE800A HDMI Cat 5 Extender (1080p@40m) 60 m



Front



R

T

Rear



R

T

Features

- Extends an HDMI connection via single Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable is required to connect between VE800AT and VE800AR if EDID Bypass and/or HDCP authentication needs to be enabled.

Specifications

Function	VE800AR	VE800AT
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption		
	DC5V: 0.61W	DC5V: 0.9W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.16 kg (0.35 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.)	9.00 x 5.50 x 2.20 cm (3.54 x 2.17 x 0.87 in.)
Carton Lot		
	5 pcs	5 pcs
Included Accessories		
	2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available, please refer to 12-5.

VE803 HDMI/USB Cat 5 Extender (1080p@40m) 60 m



Front



Rear



Features

- Extends an HDMI connection via Cat 5e cable
- **Supports Transparent USB connectivity** to all USB 2.0 full speed devices, such as a touch panel
- Transmitter unit can be powered on via USB
- Supports 8-segment equalization adjustment via switch
- **ATEN EDID Technology** – features ATEN default EDID
- Rack-mountable

Specifications

Function	VE803R	VE803T
Video Input		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP Compatible	HDMI (3D); HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
Audio		
Input	N/A	1 x HDMI Type A Female (Black)
Output	1 x HDMI Type A Female (Black)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Control		
USB	1 x USB Type A Female	1 x USB Type B Female
EDID Settings	EDID Mode: Default	EDID Mode: Default
Power Consumption	DC5V: 0.75W	DC5V: 1.04W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.16 kg (0.35 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x Power Adapter; 1x USB Cable; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

*Cables with different lengths are available, please refer to 12-5.

VE810 HDMI/IR Cat 5 Extender (1080p@40m) 60 m



(VE810R)



Features

- Extends an HDMI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Compatible for use with all ATEN HDMI switches and splitters
- The remote unit can be powered on from the local unit via a Cat 5e cable
- [Bi-directional IR channel](#) for IR signal control; IR transmission is processed one direction at a time
- Rack-mountable

Specifications

Function	VE810L	VE810R
Video Input		
Interfaces	1 x HDMI Type A Female (Black)	N/A
Impedance	100 Ω	N/A
Max. Distance	1.8 m	N/A
Video Output		
Interfaces	N/A	1 x HDMI Type A Female (Black)
Impedance	N/A	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDMI (3D, Deep Color); HDCP 1.4 Compatible	HDMI (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
Audio		
Input	1 x HDMI Type A Female (Black)	N/A
Output	N/A	1 x HDMI Type A Female (Black)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Control		
IR	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Power Consumption		
	DC5V: 2.41W	DC5V: 1.06W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.16 kg (0.35 lb)	0.16 kg (0.35 lb)
Dimensions (L x W x H)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)	9.00 x 5.74 x 2.40 cm (3.54 x 2.26 x 0.94 in.)
Carton Lot		
	20 pcs	20 pcs
Included Accessories		
	1x Power Adapter (Local Unit); 1x Mounting Kit; 1x IR Receiver; 1x IR Transmitter	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
IR Receiver Cable	2XRT-0003G	13-2

*Cables with different lengths are available, please refer to 12-5.

VE602 DVI Dual Link/Audio Cat 5 Extender (2560 x 1600@40m)

60 m

PRO



Front



Rear



Features

- Extends a DVI connection via Cat 5e cable
- Uses a second Cat 5e cable for dual link signals
- Supports 8-segment equalization adjustment via switch
- **ATEN EDID Technology** – features ATEN default EDID and learning of the EDID from the display connected to the Transmitter (VE602T)
- Rack-mountable

*The VE602 does not support HDCP

Specifications

Function	VE602R	VE602T
Video Input		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Max. Resolutions / Distance	Dual Link: up to 2560 x 1600@40m Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m	Dual Link: up to 2560 x 1600@40m Single Link: up to 1920 x 1200@40m; 1280 x 1024@60m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption		
	DC5.3V: 2.4W	DC5.3V: 2.86W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.18 kg (0.4 lb)	0.18 kg (0.4 lb)
Dimensions (L x W x H)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)
Carton Lot		
	20 pcs	20 pcs
Included Accessories		
	2x Power Adapters; 1x Mounting Kit	

Note: HDCP is not supported

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
DVI Cable with Audio	2L-7D02V	12-6
Dual Link DVI Cable*	2L-7D03DD (3 m)	12-6

*Cables with different lengths are available, please refer to 12-5.

VE600A DVI/Audio Extender (1920 x 1200@40m) 60 m PRO



Features

- Extends a DVI connection via Cat 5e cable
- Supports 8-segment equalization adjustment via switch
- Rack-mountable

Note: A second Cat 5e cable connection (DDC) is required to remotely power on either the transmitter or receiver and also to bypass EDID & HDCP signals.

Front



Rear



Specifications

Function	VE600AL	VE600AR
Video Input		
Interfaces	1 x DVI-D Female (White)	N/A
Impedance	100 Ω	N/A
Max. Distance	1.8 m	N/A
Video Output		
Interfaces	N/A	1 x DVI-D Female (White)
Impedance	N/A	100 Ω
Video		
Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)	6.75 Gbps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz	225 MHz
Compliance	HDCP Compatible	HDCP Compatible
Max. Resolutions / Distance	Up to 1080p@40m; 1080i@60m	Up to 1080p@40m; 1080i@60m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	N/A
Output	N/A	1 x Mini Stereo Jack Female (Green)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption		
	DC5.3V: 1.56W	DC5.3V: 0.76W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.17 kg (0.37 lb)	0.17 kg (0.37 lb)
Dimensions (L x W x H)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)	9.13 x 5.60 x 2.40 cm (3.59 x 2.2 x 0.94 in.)
Carton Lot		
	20 pcs	20 pcs
Included Accessories		
	2x Power Adapters; 1x Mounting Kit	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
DVI Cable with Audio	2L-7D02V	12-6

VE066 Mini DVI Cat 5 Extender (1080p@15m)

15 m



Features

- Extends a DVI connection via Cat 5e cable
- Compatible for use with all ATEN DVI switches and splitters
- **Smart Video Display** – image quality is optimized based on available resolution of the output device
- Compact size ideal for limited space installation
- Hot-pluggable

Specifications

Function	VE066R	VE066T
Video Input		
Interfaces	N/A	1 x DVI-D Male (Gold)
Impedance	N/A	100 Ω
Video Output		
Interfaces	1 x DVI-D Male (Gold)	N/A
Impedance	100 Ω	N/A
Video		
Max. Data Rate	4.95 Gbps (1.65 Gbps Per Lane)	4.95 Gbps (1.65 Gbps Per Lane)
Max. Pixel Clock	165 MHz	165 MHz
Compliance	HDCP Compatible	HDCP Compatible
Power Consumption		
DC5V: 0.12W		
Max. Resolutions / Distance	Up to 1080p@15m; 1080i@20m	Up to 1080p@15m; 1080i@20m
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.05 kg (0.11 lb)	0.05 kg (0.11 lb)
Dimensions (L x W x H)	5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.)	5.66 x 4.07 x 2.15 cm (2.23 x 1.6 x 0.85 in.)
Carton Lot		
	20 pcs	20 pcs

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

VE022 Mini VGA/Audio Cat 5 Extender (1280 x 1024@150m) 150 m



Features

- Extends a VGA connection via Cat 5e cable
- Convenient docking interface for mounting on the display device
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable



Specifications

Function	VE022R	VE022T
Video Input		
Interfaces	N/A	1 x HDB-15 Male (Black)
Impedance	N/A	75 Ω
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	75 Ω	N/A
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	N/A
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption		
	DC5V: 0.95W	DC5V: 0.62W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.05 kg (0.11 lb)	0.05 kg (0.11 lb)
Dimensions (L x W x H)	6.42 x 3.53 x 2.06 cm (2.53 x 1.39 x 0.81 in.)	7.35 x 3.53 x 2.06 cm (2.89 x 1.39 x 0.81 in.)
Carton Lot		
	20 pcs	20 pcs
Included Accessories		
	1x Power Adapter; 1x VGA Cable; 1x Audio Cable ; 1x Dock Mount kit; 1x USB to DC Power Cord	

Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

VE150A VGA Cat 5 Extender (1280 x 1024@150m) 150 m



Front



Rear



Features

- Extends a VGA connection via Cat 5e cable
- Supports one local and one remote VGA display
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable
- Rack-mountable

Specifications

Function	VE150AR	VE150AT
Video Input		
Interfaces	N/A	1 x HDB-15 Male (Blue)
Impedance	N/A	75 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	N/A
Impedance	75 Ω	N/A
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@150m	Up to 1920 x 1200@30m; 1280 x 1024@150m
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 1.05W	DC5.3V: 0.99W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.24 kg (0.53 lb)	0.24 kg (0.53 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	2x Power Adapters; 1x VGA Cable; 1x Mounting Kit	

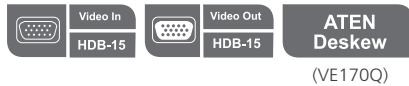
Optional Accessories

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA EDID Emulator	2A-130G	10-19

VE170 / VE170Q VGA/Audio Cat 5 Extender (1024 x 768@300m)

300 m

PRO



Front



Rear



Features

- Extends a VGA (with Audio) connection via Cat 5e cable
- Supports one local and one remote VGA display
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Rack-mountable
- Deskw Function (VE170RQ) – allows you to synchronize the time delay of RGB signals to compensate for distance

Note: Package option 1: VE170 (VE170T + VE170R)
Package option 2: VE170Q (VE170T + VE170RQ)

Specifications

Function	VE170R / VE170RQ	VE170T
Video Input		
Interfaces	N/A	1 x HDB-15 Male (Blue)
Impedance	N/A	75 Ω
Max. Distance	N/A	1.8 m
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	VE170R: Up to 1920 x 1200@30m; 1024 x 768@300m VE170RQ: Up to 1920 x 1200@150m; 1280 x 1024@300m	Up to 1920 x 1200@30m; 1024 x 768@300m
Audio		
Input	N/A	1 x Mini Stereo Jack Female (Green)
Output	1 x Mini Stereo Jack Female (Green)	1 x Mini Stereo Jack Female (Green)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption		
	VE170R: DC5.3V: 3.32W VE170RQ: DC5.3V: 5.24W	DC5.3V: 2.42W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.24 kg (0.53 lb)	0.25 kg (0.55 lb)
Dimensions (L x W x H)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)	12.77 x 9.04 x 2.26 cm (5.03 x 3.56 x 0.89 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x VGA/Audio Cable; 2x Power Adapters; 1x Mounting Kit	
Optional Accessories	Please refer to 9-59	

VE200 VGA/Audio/RS-232 Cat 5 Extender with Dual Output (1280 x 1024@200m)

200 m

PRO



(VE200R)

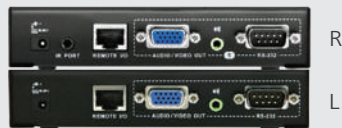
Front



R

L

Rear



R

L



Features

- Extends a VGA connection via Cat 5e cable
- Bi-directional RS-232 channel transmits signals over Cat 5e cable to control a display or other device
- Supports one local and two remote displays
- An IR channel for screen On/Off control and video adjustment at remote site
- **Adjustable Gain Control** – signal strength can be manually adjusted in Video Gain or Video Compensation modes via OSD for optimum display quality
- Rack-mountable

Specifications

Function	VE200L	VE200R
Video Input		
Interfaces	VE200L: 1 x HDB-15 Male (Blue)	N/A
Impedance	75 Ω	N/A
Max. Distance	1.8 m	N/A
Video Output		
Interfaces	1 x HDB-15 Female (Blue)	2 x HDB-15 Female (Blue)
Impedance	75 Ω	75 Ω
Video		
Max. Bandwidth	300 MHz	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@200m	Up to 1920 x 1200@30m; 1280 x 1024@200m
Audio		
Input	1 x Mini Stereo Jack Female (Green)	N/A
Output	1 x Mini Stereo Jack Female (Green)	2 x Mini Stereo Jack Female (Green)
Control		
RS-232	1 x DB-9 Female (Black), 1 x DB-9 Male (Black)	2 x DB-9 Male (Black)
IR(VE200R)	1 x Mini Stereo Jack Female (Black)	1 x Mini Stereo Jack Female (Black)
Connectors		
Power	1 x DC Jack	1 x DC Jack
Power Consumption	DC5.3V: 2.22W	DC5.3V: 3.65W
Environmental		
Operating Temperature	0 - 50°C	0 - 50°C
Storage Temperature	-20 - 60°C	-20 - 60°C
Humidity	0% - 80% RH, Non-condensing	0% - 80% RH, Non-condensing
Physical Properties		
Housing	Metal	Metal
Weight	0.35 kg (0.77 lb)	0.35 kg (0.77 lb)
Dimensions (L x W x H)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)	13.90 x 8.80 x 2.86 cm (5.47 x 3.46 x 1.13 in.)
Carton Lot	5 pcs	5 pcs
Included Accessories	1x VGA/Audio Cable; 2x Power Adapters; 1x Infrared Remote Control Handset; 1x Infrared Receiver; 1x Infrared Receiver Holder; 1x Mounting Kit	
Optional Accessories	Please refer to 9-59	

VB905 4K DisplayPort Booster (True 4K@10m) 10 m



Front



Rear



Features

- Extends True 4K signal transmission up to 5 m
- Compliant with DisplayPort 1.2a and HDCP 2.2
- Superior video quality — up to True 4K resolutions of 4096 x 2160 @ 60 Hz (4:4:4)
- Supports HDR
- Cascade 3 levels to extend True 4K signal up to 20 m
- A single unit can be powered from the source device
- Plug-and-play
- Rack-mountable

Note: Longer transmission distance is possible with lower data rates. If you want to remain high quality transmission, please use higher quality cable.

Specifications

Function	VB905
Video Input	
Interfaces	1 x DisplayPort Female (20-pin)
Max. Distance	Up to 4Kx2K@60Hz (4:4:4) / 5m 1080p@60Hz / 5m
Video Output	
Interfaces	1 x DisplayPort Female (20-pin)
Max. Distance	Up to 4Kx2K@60Hz (4:4:4) / 5m 1080p@60Hz / 5m
Video	
Max. Data Rate	21.6 Gpbs (5.4 Gbps Per Lane)
Compliance	DP1.2a HDCP 2.2
Max. Resolution	4096 x 2160@60Hz (4:4:4)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.94W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.05 kg (0.11 lb)
Dimensions (L x W x H)	5.84 x 3.53 x 2.06 cm (2.3 x 1.39 x 0.81 in.)
Carton Lot	10 pcs
Included Accessories	1 x Power Adapter

VB800 True 4K HDMI Booster (True 4K@20m; 1080p@40m) 40 m



Front



Rear



Features

- Amplifies and transmits signals from an HDMI input to an HDMI output
- HDMI (3D, Deep Color, True 4K); HDCP 2.2 compliant
- **Supports True 4K resolutions** up to 4096 x 2160 @ 60Hz (4:4:4)
- Supports HDR
- LED indication of source device status
- **Cascadable up to 10 levels with distances at 4K resolutions***
- Plug-and-play – No software to install
- Rack-mountable

Note: * The first, fourth, seventh and tenth level devices need to be connected to a power source.

Specifications

Function	VB800
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Video	
Max. Bandwidth	600 MHz
Max. Data Rate	18Gbps (6 Gbps Per Lane)
Compliance	HDMI, HDCP 2.2 Compatible
Max. Resolutions / Distance	Up to 4Kx2K@60 Hz (4:4:4)/10m; 1080p@60Hz/20m
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.99W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.09 kg (0.21 lb)
Dimensions (L x W x H)	4.90 x 5.60 x 1.70 cm (1.93 x 2.2 x 0.67 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

Optional Accessories

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5

*Cables with different lengths are available, please refer to 12-5.

VE560 DVI Booster (1920 x 1200@30m) 50 m



Front



Rear



Features

- Extends a DVI connection over a long distance
- Easy connection to different digital video devices (e.g. STB, LCD monitor, projector, LCD TVs)
- Rack-mountable

Specifications

Function	VE560
Video Input	
Interfaces	1 x DVI-D Female (White)
Video Output	
Interfaces	1 x DVI-D Female (White)
Video	
Max. Data Rate	4.95 Gbps (1.65 Gbps Per Lane)
Max. Pixel Clock	165 MHz
Compliance	HDCP Compatible
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@50m
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.86W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.32 kg (0.71 lb)
Dimensions (L x W x H) with bracket	9.30 x 5.50 x 2.40 cm (3.66 x 2.17 x 0.94 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter; 1x Mounting Kit

VB100 VGA Booster (1280 x 1024@70m) 70 m



Front



Rear



Side



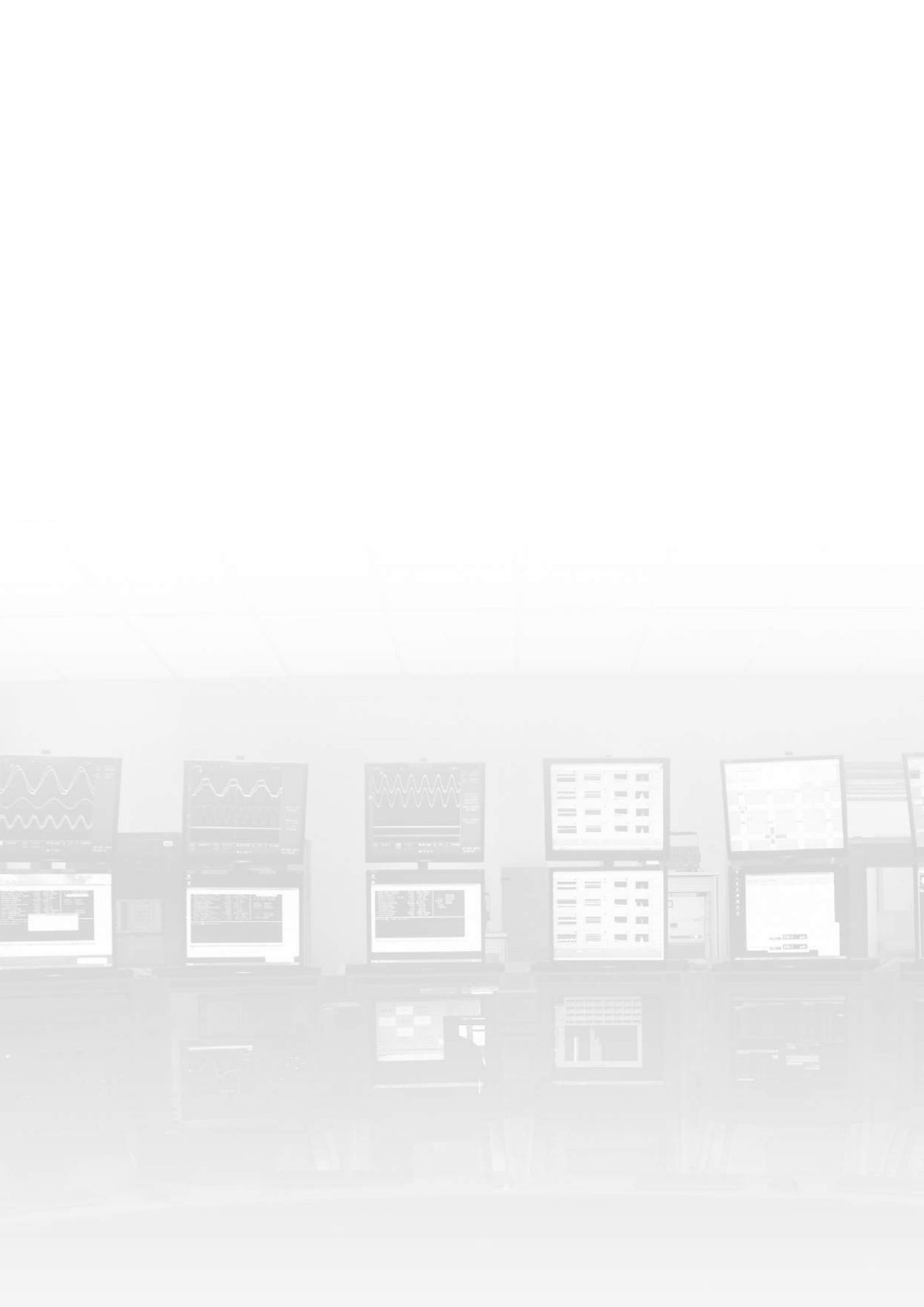
Features

- Amplifies and transmits signals from a VGA input to a VGA output
- LED indication of source device status
- **Adjustable Gain Control** – signal strength can be manually adjusted via Video Gain/Compensation tuner
- Hot-pluggable

Specifications

Function	VB100
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	Up to 1920 x 1200@30m; 1280 x 1024@70m
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 0.63W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.06 kg (0.13 lb)
Dimensions (L x W x H) with bracket	3.53 x 6.88 x 2.06 cm (1.39 x 2.71 x 0.81 in.)
Carton Lot	10 pcs
Included Accessories	1x Power Adapter

Note: Please use the power adapter included in the package if VB100 cannot be powered via the source device. Respective length of both VGA cables can vary, but the total length of both cables cannot exceed 70 meters.



Video Extender Rack Mount Kit VE-RMK1U / VE-RMK2U / VE-RMK3U

ATEN's Video Extender Rack Mount Kit offers a range of flexible mounting solutions for installing ATEN video extenders and KVM extenders in a rack. You can choose from three VE-RMK rack mount kits (1U to 3U) to match the extender type you are installing, which allows for a well-organized and easy-to-maintain setup.



VE-RMK1U



VE-RMK2U



Features

- Standard 1U, 2U and 3U designs fit into rack space neatly
- Fixed stand allows extenders to be safely installed on the rack
- Allows easy cabling and maintenance
- Provides flexible rack mounting for 1 to 12 extenders

VE-RMK3U



Product Name	Compatible Products
VE-RMK1U	CE100, VE560, VE600A, VE601, VE602, VE800A, VE801, VE803, VE810, VE811, VE901, VE150A, VE170, VE172R, VE802, CE250A, CE700A, CS72D, CS72E, KE6900ST, VE1812, VE2812T, VC1280, VE2812R, VE802, VE812, VE814, VE814A, VE882, VE8900, VE8950, VE892, VS182A, VS182B, VS192, VS194, UC2322, UC2324, UC4852, UC4854, CE350, CE370, CE600, CE602, CE604, CE610A, CE620, CE624, CE750, CE750A, CE770, CE800B, CE820, CE920, CN8000, CN8000A, CS724KM, CS74D, CS74E, VC880, VE1832, VE816R, VE883, VS184B, VS481A, VS481B, VS481C
VE-RMK2U	VE800A, VE803, VE810, VE600A, VE602, VE560, CE100
VE-RMK3U	VE800A, VE803, VE810, VE600A, VE602, VE560, CE100, VE601, VE801, VE901

Optional Accessories

VE1832

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (38KHz)	2XRT-0003G	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE1830

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1

VE816R

Description	Part No. / Spec.	Page No.
HDMI Cable	2L-7D02H-1 (2m), 2L-7D03H (3m), 2L-7D05H (5m), 2L-7D10H (10m),	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE805R

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE2812T / VE2812EUT / VE2812UST

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
VGA Cable	2L-2502 (2 m)	12-6
Full Range IR Receiver (38KHz)	2XRT-0003G	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE2812R

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
VGA Cable	2L-5202 (2 m)	12-6
Full Range IR Receiver (38KHz)	2XRT-0003G	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE814A

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

*Cables with different lengths are available, please refer to 12-5.

VE813A

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

VE811

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

VE1812

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE812

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

VE801 / VE802

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz) (VE802)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz) (VE802)	2XRT-0004G	13-2

VE901

Description	Part No. / Spec.	Page No.
DisplayPort Cable*	2L-7D02DP (1.8m)	12-6
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
DisplayPort to 4K HDMI Active Adapter	VC986	10-14
DisplayPort to VGA Adapter	VC925	10-15

VE601

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3

VE1801EUT / VE1801UST

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
HDBaseT Cat 6 Cable	2L-2910	12-1
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
VGA Cable	2L-2502 (2 m)	12-6
Full Range IR Receiver (38KHz)	2XRT-0003G	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE606 / VE607

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
DVI Cable with Audio	2L-7D02V	12-6

VE156 / VE157

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA/Audio Cable	2L-2402A	12-6

*Cables with different lengths are available, please refer to 11-5 & 11-6.

VE883

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1
Full Range IR Receiver (30-56KHz)	2XRT-0003G-1	13-2
Full Range IR Emitter (30-56KHz)	2XRT-0004G	13-2

VE882 / VE892

Description	Part No. / Spec.	Page No.
HDMI Cable*	2L-7D02H-1 (2 m)	12-5
LockPro™ (HDMI Cable Lock)	2X-EA12	13-1

VE170 / VE170Q

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA / Audio Cable	2L-2402A	12-6
VGA EDID Emulator	2A-130G	10-19

VE200

Description	Part No. / Spec.	Page No.
HDBaseT Cat 6 Cable	2L-2910	12-1
Low Skew Cable	2L-2801	12-3
VGA / Audio Cable	2L-2402A	12-6
VGA EDID Emulator	2A-130G	10-19
IR Remote control	2XRT-0301G	13-2

*Cables with different lengths are available, please refer to 12-5.

Video Converters

ATEN Video Converters allow you to connect a video source device to the display device of your choice, equipped with different video interfaces. We provide simple single port-to-port converters which enable you to connect VGA based devices to DVI / HDMI digital displays, and universal interface products which integrate multiple device inputs into a single box for easy converting of various analog-to-digital audio/video signals. With built-in easy-to-use features, this series makes converting connections simple.



- **Major Video Interface Support**

Our products incorporate all current video interfaces including;VGA, DVI, SDI, Mini DisplayPort, DisplayPort and HDMI, while meeting the strict requirements needed for high quality signal conversions.

- **Compact Design**

Compact designs allow a neat and tidy workspace and trouble-free installation - solutions that think of you.

- **Easy Installation**

Flexible convenient installation – with no software or configuration required. Simply make the hardware connections and enjoy the experience.

- **Outstanding Multimedia**

With high-quality video, the integrated audio component delivers an outstanding A/V experience when working with modern multimedia applications and equipment.

- **Audio Extraction**

ATEN's additional audio de-embedder function extracts and converts audio signals from the HDMI input. This means you can choose between analog stereo via RCA connectors and digital audio via optical or coaxial connections for additional methods to produce high quality audio output.

Note: 1.The features highlighted above are not available in all products. Please refer to each product page for more details.
2.Product information is subject to change without prior notice.



Specifications at a Glance

Input Interface	HDMI/DVI	HDMI	HDMI/VGA	HDMI		
Output Interface	HDMI	HDMI	HDMI	SDI	VGA	VGA
Model	VC881	VC880	VC1280	VC840	VC812	VC810
Max. Resolution	HDMI: 3840 x 2160 DVI: 1920 x 1200	1080p	HDMI: 3840 x 2160 VGA: 1920 x 1200	1080p	1920 x 1200	1920 x 1200
Audio Input	HDMI, Stereo	HDMI	HDMI, Stereo	HDMI	HDMI	N/A
Audio Output	HDMI, Optical, Coaxial, Stereo	HDMI, Optical, Coaxial, Stereo	HDMI	Stereo, S/PDIF	Stereo, Coaxial	N/A
Scaler	N/A	N/A	N/A	N/A	•	N/A
Audio Embedding	•	N/A	•	N/A	N/A	N/A
Audio De-embedding	•	•	N/A	•	•	N/A

Input Interface	SDI	VGA		
Output Interface	HDMI	HDMI	HDMI	DVI
Model	VC480	VC182	VC180	VC160A
Max. Resolution	1080p	1920 x 1200	1080p	1920 x 1200
Audio Input	SDI	Stereo, Coaxial	Stereo	N/A
Audio Output	Stereo, S/PDIF, HDMI	HDMI	HDMI	N/A
Scaler	N/A	•	N/A	N/A
Audio Embedding	N/A	•	•	N/A
Audio De-embedding	•	N/A	N/A	N/A

Input Interface	DisplayPort		Mini DisplayPort	
Output Interface	HDMI	VGA / DVI / HDMI	HDMI	VGA / DVI / HDMI
Model	VC986	VC925 / VC965 / VC985	VC981	VC920 / VC960 / VC980
Max. Resolution	3840 x 2160	VC925: 1920 x 1200 VC965 / VC985: 1080p	3840 x 2160	1920 x 1200
Audio Input	DisplayPort	VC985: DisplayPort	Mini DisplayPort	VC980: Mini DisplayPort
Audio Output	HDMI	VC985: HDMI	HDMI	VC980: HDMI
Scaler	N/A	N/A	N/A	N/A
Audio Embedding	N/A	N/A	N/A	N/A
Audio De-embedding	N/A	N/A	N/A	N/A

Interface	HDMI	VGA	DVI	HDMI	VGA
Model	VC081	VC010	VC060	VC080	2A-130G
Max. Resolution	4K@60Hz (4:4:4)	1920 x 1200	1920 x 1200	4K@60Hz (4:2:0)	1920 x 1200
Audio	HDMI	N/A	N/A	HDMI	N/A
EDID	•	•	•	•	•
RS-232 Connection	N/A	•	•	•	N/A

VC881 4K HDMI/DVI to HDMI Converter with Audio De-embedder

SPDIF



Front

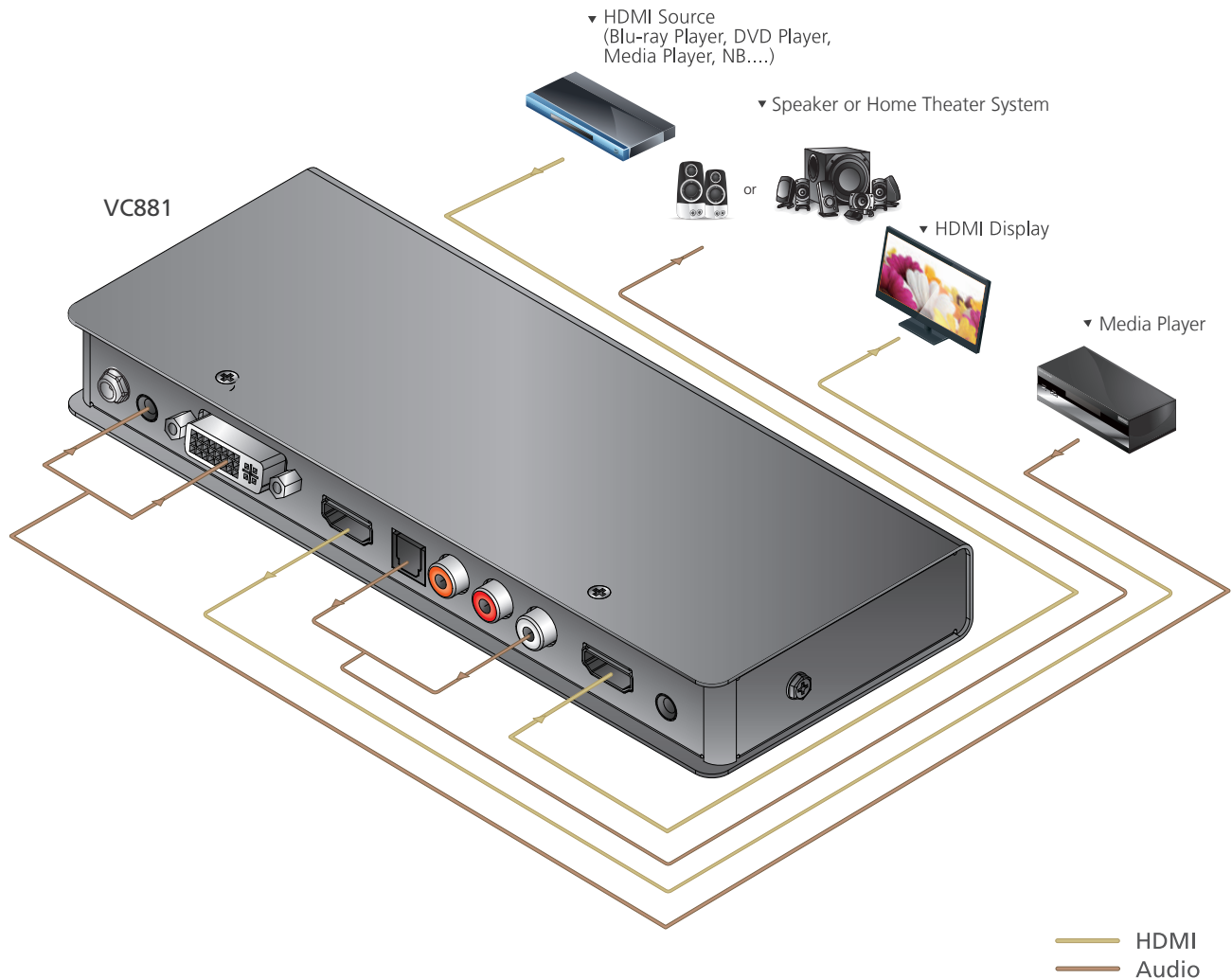


Rear

Features

- Easy mode selection via a pushbutton
 - HDMI to HDMI
 - DVI to HDMI
 - Audio Return Channel (ARC)
- HDMI 1.4 (3D, Deep Color, 4K); HDCP 1.4 compliant
- Superior video quality:
 - HDMI: up to 4K (3840 x 2160 @30Hz)
 - DVI: up to 1920 x 1200
- HDMI audio stream can be extracted and converts it to S/PDIF, Coaxial, or a RCA Stereo Audio signal
- LED indication of power status
- Firmware upgradable
- All metal casing

Setup > VC881



Specifications

Function	VC881
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x DVI-D Female (White)
Impedance	100 Ω
Max. Distance	HDMI: 3m; DVI: 1.8m
Video Output	
Interfaces	1 x HDMI Type A Female (Black) with ARC
Impedance	100 Ω
Max. Distance	3m
Video	
Max. Data Rate	10.2 Gps (3.4 Gbps Per Lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI 1.4 (3D, Deep Color); HDCP 1.4 Compatible
Max. Resolution	HDMI 3840 X 2160@30Hz DVI 1920 x 1200
Audio	
Input	Stereo Audio: 1 x 3.5mm Jack (Green)
Output	Optical Audio: 1 x Toslink (Black); Coaxial Audio: 1 x RCA Female (Orange) Stereo Audio: 2 x RCA Female (White / Red)
Switches	
Mode Selection	Side Switch x 1 (HDMI Audio Out - ON/OFF) Side Switch x 1 (Audio Out Channel - AUTO/CH 5.1/CH 2) Push Button x 1 (Audio Function Selection): 1. HDMI to HDMI 2. DVI to HDMI 3. ARC (Audio Return Channel)
Connectors	
Power	1 x DC Jack, 5V, Lockable
Firmware Upgrade	1 x 3.5mm jack (FW upgrade)
Power Consumption	DC5V: 1.77W
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.47 kg (1.04 lb)
Dimensions (L x W x H)	20.20 x 8.49 x 2.50 cm (7.95 x 3.34 x 0.98 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

VC880 HDMI Repeater Plus Audio De-embedder **PRO**



A/V In
HDMI



A/V Out
HDMI

5.1 Channel



Audio Out
Toslink

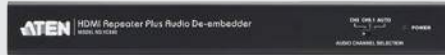


Audio Out
RCA



Audio out
Stereo

Front



Rear



Features

- Repeats HDMI input signals and extracts HDMI audio signals as an additional audio source
- HDMI audio can be switched on/off via switch
- Audio channel selection via switch with options of CH 2, CH 5.1 and Auto
- Firmware upgradable

Specifications

Function	VC880
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Data Rate	6.75 Gps (2.25 Gbps Per Lane)
Max. Pixel Clock	225 MHz
Compliance	HDMI (3D, Deep Color) HDCP 1.4 Compatible
Max. Resolution	Up to 1920 x 1080
Audio	
Output	1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange); 2 x RCA (Red/White);
Connectors	
Power	1 x DC Jack
Power Consumption	DC5.3V: 2.25W
Environmental	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.46 kg (1.01 lb)
Dimensions (L x W x H)	20.00 x 8.20 x 2.50 cm (7.87 x 3.23 x 0.98 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

VC1280 2-Port 4K HDMI/VGA to HDMI Converter Switch



Front



Rear



Features

- Converts VGA input signals to a HDMI output
- Easy mode selection via a pushbutton
 - HDMI to HDMI
 - VGA to HDMI
- Superior video quality:
 - HDMI: up to 4K (3840 x 2160 @30Hz)
 - VGA: 1600 x 1200 and 1920 x 1200
- **Auto Switch** - Automatically switches to a newly plugged-in source
- HDMI 1.4 (3D, Deep color, 4K); HDCP 1.4 compliant
- Firmware upgrade via RS-232 Channel

Specifications

Function	VC1280
Video Input	
Interfaces	1 x HDMI Type A Female (Black); 1 x HDB-15 (VGA) Female (Blue)
Impedance	HDMI: 100 Ω ; HDB-15 (VGA): 75 Ω
Max. Distance	HDMI: 3m; VGA: 1.8m
Video	
Max. Data Rate	10.2Gbps (3.4Gbps per lane)
Max. Pixel Clock	340 MHz
Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible; Consumer Electronics Control (CEC)
Max. Resolutions / Distance	Video Input
	HDMI (3840 x 2160 @30Hz): 3m
	VGA (1920 x 1200): 1.8m
	Video Output
	HDMI (3840 x 2160 @30Hz) : 3m
Audio	
Input	1 x HDMI Type A Female (Black); 1 x Mini Stereo Jack Female (Green)
Connectors	
Unit To Unit	1 x RJ-45 Female
Power	1 x DC Jack (Black) with locking
Control	
RS-232	Connector: 1 x Terminal Block, 3 pole Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, no parity and flow control
IR	1 x Mini Stereo Jack Female (Black)
Switches	
Video Input Port Selection	1 x Push Button - HDMI, VGA and AUTO
Firmware Upgrade	RS-232
Power Consumption	
Environmental	DC5V: 3W
Operating Temperature	0 - 40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.47 kg (1.04 lb)
Dimensions (L x W x H) with bracket	14.32 x 12.30 x 3.00 cm (5.64 x 4.84 x 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 x 10.10 x 2.90 cm (5.35 x 3.98 x 1.14 in.)
Carton Lot	5 pcs
Included Accessories	1x Power adapter

VC840 HDMI to 3G-SDI/Audio Converter



Front



Rear



Features

- Converts HDMI input signals to a 3G/HD/SD-SDI output
- Automatic detection of input video signals
- Offers 2 low-jitter SDI outputs for dual display
- Supports 8 audio channels @48 KHz rate
- Re-clocking SDI signals for cascading and thus longer transmission
- Power connector lock for secure communications
- **EDID Expert™** – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens

Specifications

Function	VC840
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video Output	
Interfaces	2 x BNC (Gold)
Impedance	75 Ω
Video	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
Audio	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
SDI Formats	
SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)	
EDID Settings	EDID Mode: Learn
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 3.23W
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	12.20 x 10.70 x 3.04 cm (4.8 x 4.21 x 1.2 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter

VC812 HDMI to VGA/Audio Converter with Scaler **PRO**



Features

- Converts HDMI input signals to a VGA output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- **Scaler** – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- **Integrated superior video noise reduction**
- **Integrated Next Generation Color Engine** – automatic picture quality / color adjustment and enhancement
- **Built-in OSD Function** – for video and system configurations via pushbuttons
- **De-interlace Function** – for smooth video playback quality

*The VC812 does not support HDCP

Specifications

Function	VC812
Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDB-15 Female (Black)
Impedance	75 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1920 x 1200
Supported Resolutions	480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200
Audio	
Output	Analog: 1 x Mini Stereo Jack Female (Black) Digital: 1 x RCA (Yellow)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 2.13W
Environmental	
Operating Temperature	0 - 40 °C
Storage Temperature	-20 - 60 °C
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)
Carton Lot	5 pcs
Included Accessories	1x Power Adapter; 1x Software CD

VC810 HDMI to VGA Adapter



Front



Rear



Features

- Converts HDMI input signals to a VGA output
- Compact and portable size

Specifications

Function	VC810
Video Input	
Interfaces	1 x HDMI Type A Male (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDB-15 Female (Black)
Impedance	75 Ω
Video	
Max. Pixel Clock	200 MHz
Max. Resolution	Up to 1920 x 1200
Power Consumption	DC5.3V: 0.25W
Environmental	
Operating Temperature	0 - 60 °C
Storage Temperature	-10 - 70 °C
Humidity	40 - 85% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	0.01 kg (0.02 lb)
Dimensions (L x W x H)	4.55 x 2.30 x 1.48 cm (1.79 x 0.91 x 0.58 in.)
Carton Lot	40 pcs

VC480 3G-SDI to HDMI/Audio Converter



Features

- Converts 3G/HD/SD-SDI input signals to an HDMI output
- Automatic detection of input video signals
- Buffered loop-through output provides extended monitoring
- Re-clocking SDI signals for cascading thus longer transmission
- Power connector lock for secure communications
- Supports 8 audio channels @48 KHz rate

Specifications

Function	VC480
Video Input	
Interfaces	1 x BNC (Gold)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black); 1 x BNC (Gold)
Impedance	100 Ω
Video	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
Audio	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
SDI Formats	
	SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)
Connectors	
Power	1 x DC Jack
Power Consumption	
	DC5V: 3.64W
Environmental	
Operating Temperature	0 - 40 $^{\circ}\text{C}$
Storage Temperature	-20 - 60 $^{\circ}\text{C}$
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	12.30 x 10.87 x 3.05 cm (4.84 x 4.28 x 1.2 in.)
Carton Lot	
	5 pcs
Included Accessories	
	1x Power Adapter

VC182 VGA/Audio to HDMI Converter with Scaler



Features

- Converts VGA input signals to an HDMI output
- Automatic detection of input video signals
- Device configurations using a utility tool via mini USB port connection
- **Scaler** – features a unique scaling engine that converts various input video resolutions into the display's native resolution, while adjusting the picture ratio automatically for optimum display quality
- Supports 16:9 / 4:3 aspect ratios and multiple selectable video resolutions
- **Integrated superior video noise reduction**
- **De-interlace Function** – for smooth video playback quality
- **Built-in OSD Function** – for video and system configurations
- **Integrated Next Generation Color Engine** – automatic picture quality / color adjustment and enhancement

Specifications

Function	VC182
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1080p
Scaler Resolutions	480p; 480i; 576p; 576i; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 1024; 1360 x 768; 1440 x 900; 1400 x 1050; 1600 x 1200; 1680 x 1050; 1080i; 1080p; 1920 x 1200
Audio	
Input	Analog: 1 x Mini Stereo Jack Female (Black) Digital: 1 x RCA (Yellow)
Connectors	
Power	1 x DC Jack
Power Consumption	
DC5V: 1.56W	
Environmental	
Operating Temperature	0 - 40 $^{\circ}\text{C}$
Storage Temperature	-20 - 60 $^{\circ}\text{C}$
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.31 kg (0.68 lb)
Dimensions (L x W x H)	11.00 x 8.30 x 2.80 cm (4.33 x 3.27 x 1.1 in.)
Carton Lot	
5 pcs	
Included Accessories	
1x Power Adapter; 1x Software CD	

VC180 VGA/Audio to HDMI Converter



Front



Rear



Features

- Converts VGA input signals to an HDMI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- Compact design and light-weighted
- **Screen Position Button** – saves screen position settings for each output resolution

Specifications

Function	VC180
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1080p
Audio	
Input	1 x Mini Stereo Jack Female (Green)
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 2.62W
Environmental	
Operating Temperature	0 - 50 $^{\circ}\text{C}$
Storage Temperature	-20 - 60 $^{\circ}\text{C}$
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.15 kg (0.33 lb)
Dimensions (L x W x H)	7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

VC160A VGA to DVI Converter

Video In
HDB-15

Video Out
DVI

Smart Video
Display

Screen
Position
Tuner

EDID



Front



Features

- Converts VGA input signals to a DVI output
- Supports dual power sources: VGA port or power adapter
- Automatic detection of input video signals
- **Screen Position Button** – saves screen position settings for each output resolution

Specifications

Function	VC160A
Video Input	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video Output	
Interfaces	1 x DVI-D Female (White)
Impedance	100 Ω
Video	
Max. Pixel Clock	165 MHz
Max. Resolution	Up to 1920 x 1200
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V: 1.64W
Environmental	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.15 kg (0.33 lb)
Dimensions (L x W x H)	7.90 x 7.81 x 2.44 cm (3.11 x 3.07 x 0.96 in.)
Carton Lot	20 pcs
Included Accessories	1x Power Adapter

VC981 / VC986 Mini DisplayPort / DisplayPort to 4K HDMI Active Adapter



VC981



VC986



Features

- Supports VGA, SVGA, XGA, SXGA, UXGA, 1080p and resolutions up to 4K UHD
- Active adapter – features an advanced chip which ensures stable video signal conversion even when the video source does not support dual-mode DisplayPort (DP++)*
- Supports Eyefinity (multi-screen setups)
- Audio supported
- No software or driver installation required
- DisplayPort 1.2a compliant

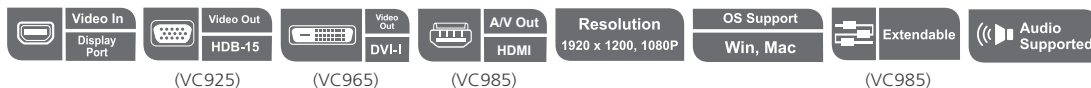
Note: *Dual-mode DisplayPort (DP++) can directly process the signal from DisplayPort to HDMI or DVI signals. Devices supporting DP++ will display this logo.



Specifications

Function	VC981	VC986
Video Input		
Interfaces	1 Mini DisplayPort Male (White)	1 x DisplayPort Male (White)
Video Output		
Interfaces	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Video		
Max. Pixel Clock	297 MHz	297 MHz
Max. Resolution	3840 x 2160@30Hz, 1920 x 1200@60Hz.	3840x2160@30Hz, 1920 x 1200@60Hz.
Compliance	DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3	DP1.2a, HDMI (3D, Deep Color, 4K), HDCP 1.3
Audio		
Output	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
Power Consumption	DC3.3V: 0.25W	DC3.3V: 0.25W
Environmental		
Operating Temperature	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 – 60 °C	-20 – 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties		
Housing	Plastic	Plastic
Weight	0.04 kg (0.09 lb)	0.04 kg (0.09 lb)
Dimensions (L x W x H)	17.50 x 4.50 x 1.50 cm (6.89 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)
Carton Lot	40 pcs	40 pcs

VC925 DisplayPort to VGA Adapter
VC965 DisplayPort to DVI Adapter
VC985 DisplayPort to HDMI Adapter



VC925



VC965



VC985



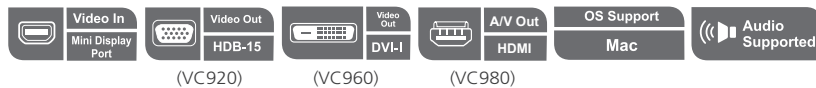
Features

- Supports VGA, SVGA, XGA, SXGA, UXGA and resolutions up to 1920x1200 (PC) / 1080p (HDTV)
- Audio Supported (VC985 Only)
- No software or driver installation required
- DisplayPort 1.2a compliant

Specifications

Function	VC925	VC965	VC985
Video Input			
Interfaces	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)	1 x DisplayPort Male (White)
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I* Female (White) *Only support digital signal transmission.	1 x HDMI Type A Female (Black)
Video			
Max. Pixel Clock	165 MHz	165 MHz	165MHz
Max. Resolution	1920x1200@60Hz(PC)/ 1080p(HDTV)	1920 x 1080@60HZ	1920 x 1080@60HZ
Compliance	DP 1.2a	DP 1.2a, DVI 1.1	DP 1.2a, HDMI 1.3
Audio			
Output	N/A	N/A	1 x HDMI Type A Female (Black)
Power Consumption	DC3.3V: 0.25W	DC3.3V: 0.25W	DC3.3V: 0.25W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60°C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Plastic	Plastic	Plastic
Weight	0.04 kg (0.1 lb)	0.04 kg (0.11 lb)	0.04 kg (0.09 lb)
Dimensions (L x W x H)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)	18.00 x 4.50 x 1.50 cm (7.09 x 1.77 x 0.59 in.)
Carton Lot	40 pcs	40 pcs	40 pcs

VC920 Mini DisplayPort to VGA Adapter
VC960 Mini DisplayPort to DVI Adapter
VC980 Mini DisplayPort to HDMI Adapter



VC920



VC960



VC980



Features

- Converts mini DisplayPort input signals to a VGA / DVI / HDMI output
- Supported devices: MacBook, MacBook Pro, MacBook Air, Mac mini and Mac Pro
- Audio enabled (VC980)

Specifications

Function	VC920	VC960	VC980
Video Input			
Interfaces	1 x Mini DisplayPort Male (White)	1 x Mini DisplayPort Male (White)	1 x Mini DisplayPort Male (White)
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)* *VC960 Only supports digital signal transmission.	1 x HDMI Type A Female (Black)
Video			
Max. Pixel Clock	165 MHz	165 MHz	165 MHz
Max. Resolution	Up to 1920 x 1200	Up to 1920 x 1200	Up to 1920 x 1200
Compliance	DP 1.2a	DP 1.2a, DVI 1.1	DP 1.2a, HDMI 1.3
Audio			
Output	N/A	N/A	1 x HDMI Type A Female Black
Power Consumption			
	DC3.3V: 0.25W	DC3.3V: 0.25W	DC3.3V: 0.25W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Plastic	Plastic	Plastic
Weight	0.04 kg (0.09 lb)	0.05 kg (0.11 lb)	0.03 kg (0.07 lb)
Dimensions (L x W x H)	20.00 x 4.30 x 2.01 cm (7.87 x 1.69 x 0.79 in.)	20.00 x 4.30 x 2.01 cm (7.87 x 1.69 x 0.79 in.)	19.00 x 2.10 x 1.11 cm (7.48 x 0.83 x 0.44 in.)
Carton Lot			
	40 pcs	40 pcs	40 pcs

VC081 HDMI EDID Emulator



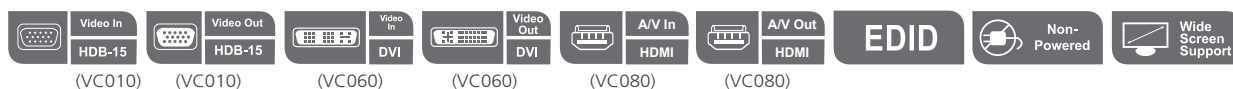
Features

- Manages EDID communication between connected devices
- Effectively learn the EDID from HDMI display and relay it to video source
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compliant
- Superior video quality – up to True 4K (3840 x 2160 @ 60Hz 4:4:4)
- LED indicators to show device status
- Powered by HDMI source
- Compact and lightweight design

Specifications

Function	VC081
Video Input	
Interfaces	1 x HDMI Type A Male (Black)
Impedance	100 Ω
Video Output	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Video	
Compliance	HDMI 2.0 (3D, Deep Color) HDCP 2.2 Compatible Consumer Electronic Control (CEC)
EDID Settings	EDID Mode: Default / Learning
Connectors	
Power	Bus-powered (5 VDC from source device)
LEDs	
Power	Power status (Green x 1)
Status	Learning (Blue x 1)
Power Consumption	DC5V: 0.25W
Environmental	
Operating Temperature	0 - 50 $^{\circ}\text{C}$
Storage Temperature	-20 - 60 $^{\circ}\text{C}$
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic (ABS)
Weight	0.1 kg (0.22 lb)
Dimensions (L x W x H)	4.40 x 1.18 x 2.40 cm (1.73 x 0.46 x 0.94 in.)
Carton Lot	40 pcs

VC010 VGA EDID Emulator
VC060 DVI EDID Emulator
VC080 HDMI EDID Emulator



Features

- [ATEN EDID Wizard](#) – allows users to custom configure multiple EDID settings for display via RS-232 connection
- [EDID Expert™](#) – selects optimum EDID settings for smooth power-up, high-quality display and use of the best resolution across different screens
- Hot-pluggable
- Firmware upgradable

Note: Please connect an external power cord to the video source if it is not supplied with enough power to function.

Specifications

Function	VC010	VC060	VC080
Video Input			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)	1 x HDMI Type A Female (Black)
Impedance	75 Ω	100 Ω	100 Ω
Video Output			
Interfaces	1 x HDB-15 Female (Blue)	1 x DVI-I Female (White)	1 x HDMI Type A Female (Black)
Impedance	75 Ω	100 Ω	100 Ω
Video			
Compliance	N/A	N/A	HDMI (3D, Deep Color) HDCP 1.4 Compatible Consumer Electronic Control (CEC)
Audio			
Output	N/A	N/A	1 x HDMI Type A Female (Black)
EDID Settings	EDID Mode: Default / Learn / Customized (EDID Wizard support)	EDID Mode: Default / Learn / Customized (EDID Wizard support)	EDID Mode: Default / Learn / Customized (EDID Wizard support)
Connectors			
Power	1 x DC Jack	1 x DC Jack	1 x DC Jack
Power Consumption	DC5V: 0.11W	DC5V: 0.13W	DC5V: 0.17W
Environmental			
Operating Temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C
Storage Temperature	-20 - 60 °C	-20 - 60 °C	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing	0 - 80% RH, Non-Condensing
Physical Properties			
Housing	Metal	Metal	Metal
Weight	0.15 kg (0.33 lb)	0.15 kg (0.33 lb)	0.15 kg (0.33 lb)
Dimensions (L x W x H)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)	7.90 x 7.86 x 2.45 cm (3.11 x 3.09 x 0.96 in.)	7.90 x 7.76 x 2.45 cm (3.11 x 3.06 x 0.96 in.)
Carton Lot	5 pcs	5 pcs	5 pcs
Included Accessories	1x RS-232 Configuration Cable; 1x USB to DC Power Cord		

2A-130G VGA EDID Emulator



Features

- Substitutes as a monitor at the site where the computer / video source is located
- EDID built-in – Stores ATEN standard EDID information in device
- ATEN standard EDID support all popular resolutions
- Superior video quality - up to 1920 x 1200@60Hz, 1366 x 768@60Hz
- USB Powered – No need for an external power adapter
- No software required – Eliminates incompatibility and installation issues; no need to configure

Specifications

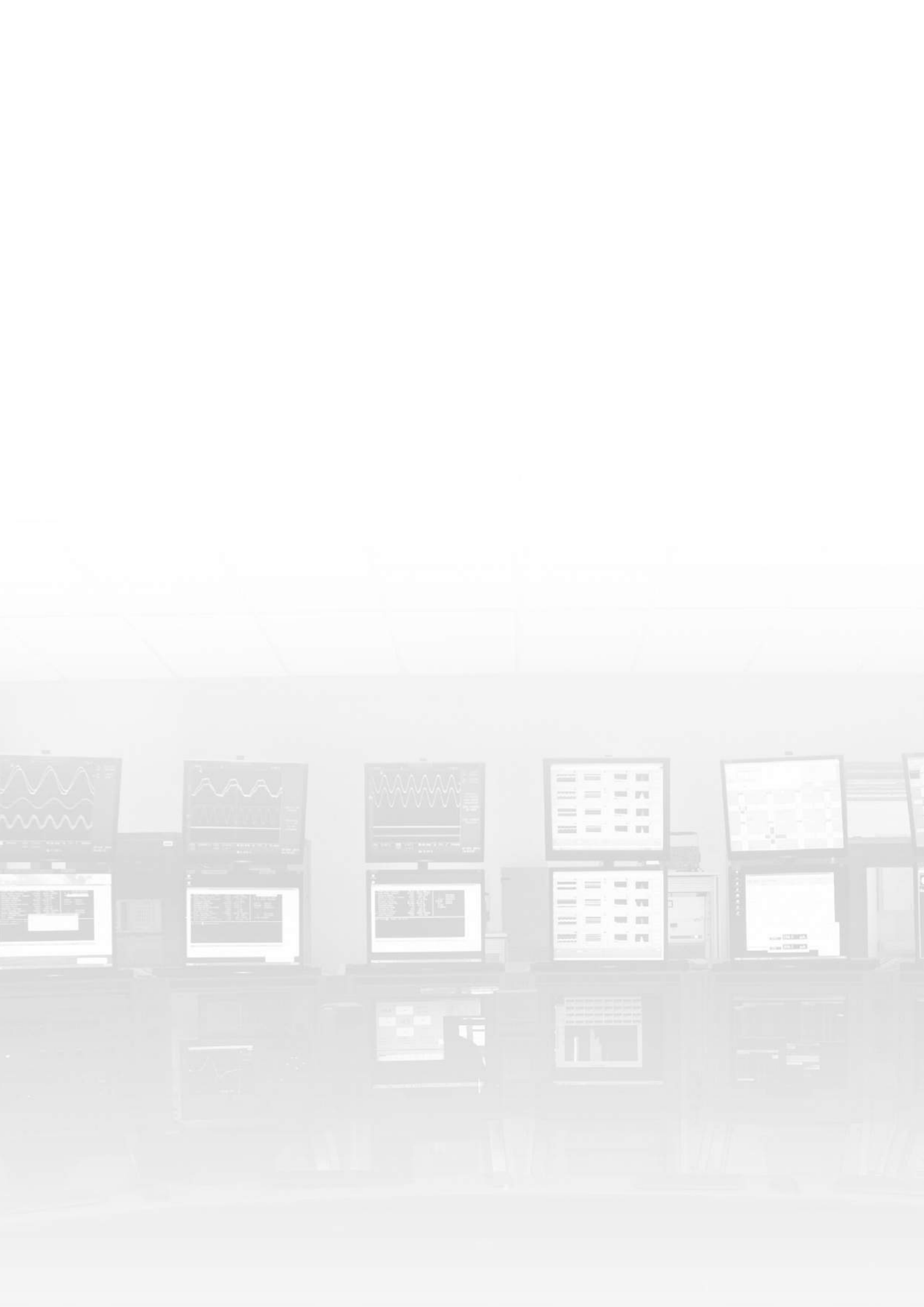
Function	2A-130G
Connectors	
Video	1 x HDB-15 Male (Blue)
Power	1 x USB Type A Male
LEDs	
Power	1 (Green)
Video	
	1920 x 1200@60Hz 1366 x 768@60Hz
Cable Length	0.35 m
Power Consumption	DC5V: 0.06W
Environmental	
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Plastic
Weight	42 g
Dimensions (L x W x H)	6.59 x 3.40 x 1.60 cm (2.59 x 1.33 x 0.63 in.)

Compatible Splitters

Part No. / Spec.	Page No.
VS1204T, VS1208T,	5-11
VS0102, VS0104, VS0108,	8-13
VS132A, VS134A, VS138A,	8-14
VS92A, VS94A, VS98A,	8-15
VS82, VS84, VS88,	8-16
VS0116, VS132, VS102,	8-12, 8-17

Compatible Extenders

Part No. / Spec.	Page No.
CE800B, CE775, CE774, CE770, CE750A, CE700A, CE370, CE350, CE250A, VE156, VE157, VE172R, VE170, VE170Q, VE150A, VE200	For CE products, please refer to ATEN SOHO and SMB Catalog CH5. 9-30 5-13 9-49 9-48, 9-50



CM1284

4-Port USB 4K HDMI Multi-View KVM[™] Switch



Front



Rear



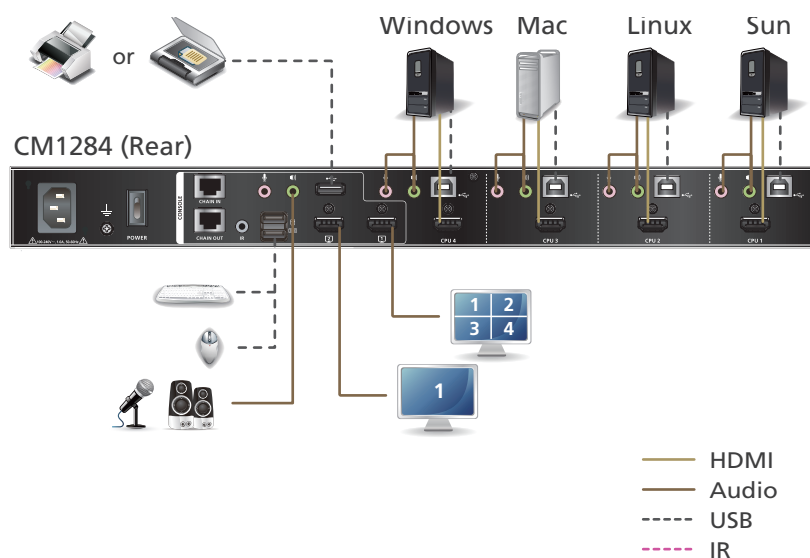
Features

- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- Features dual output on console side – a multi-view output and a full screen output
- Easily resizes and / or reposition any PiP or PbP to suit users' viewing needs
- System configuration via front panel, OSD, IR Remote, and RS-232 commands – display mode and port selection
- Supports superior video quality – Up to 4K (4096 x 2160 @ 30 Hz)
- Drop down menu – edit display windows and other functions with the mouse and on-screen control panel
- Computer selection via front panel pushbutton and hotkey, mouse¹, and the serial commands
- [Boundless Switching](#) – Simply moves the mouse cursor across windows to switch to other video sources
- [Video DynaSync[™]](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- [EDID Expert[™]](#) – Selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens
- DCC (Daisy Chain Control) – Controls up to 3 additional CM1284 units from a single console
- Cascade up to 2 levels – Controls up to 16 computers (with up to 4 x 4 Multi-view mode)
- HDCP 1.4 compliant
- Console keyboard emulation / bypass feature
- Console mouse port emulation / bypass feature
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Firmware upgradable via computer's USB port
- Multilingual keyboard mapping – supports English, French, Japanese, and German keyboards
- Supports keyboard combinations via emulation (for Sun / Mac)²

Note:

1. Mouse port switching is only workable under mouse emulation mode and is for 3-key USB wheel mouse only
2. PC keyboard combinations emulate Mac keyboard. Mac keyboard only work with their own computers

Setup > CM1284



- **Quad View** displays all four computers / video sources on the display



- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port

Specifications

Function	CM1284
Computer Connections	4
Port Selection	Pushbutton, Hotkey, IR Remote Control, On-Screen Display(OSD), RS-232 Commands
Connectors	
Console Ports	2 x USB Type A Female 2 x HDMI Female (Black) 2 x 3.5mm Audio Jack Female (Green; 1 x front panel, 1 x rear panel) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear) 2 x RJ-45
KVM (Computer) Ports	4 x USB Type B Female (White) 4 x HDMI Female (Black) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x IEC320 Jack
USB Hub	2 x USB 2.0 Type A Female (1 x front panel; 1 x rear panel)
Switches	
Selected	11 x Pushbuttons
Emulation	
Keyboard / Mouse	USB
Video	4096 x 2160 @ 30Hz
LEDs	
KVM	4 (Orange)
Audio	4 (Green)
USB	4 (Green)
Maximum Input Power Rating	100-240 VAC; 50/60Hz; 1A
Power Consumption	AC110V: 16.0W / AC220V: 14.8W
Environmental	
Operating Temperature	0 - 50°C
Storage Temperature	-20 - 60°C
Humidity	0-95% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	2.46 kg (5.42 lb)
Dimensions (L x W x H)	43.72 x 16.40 x 4.40 cm (17.21 x 6.46 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	4x USB HDMI Cables; 1x Power Cord; 1x IR Remote Control; 1x Rack Mount Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB HDMI KVM Cables	2L-7D02UH (1.8 m)	Refer to ATEN Catalog 12-3 T
IR Extender Cable	2XRT-0003G	Refer to ATEN Catalog 12-4

CM1164A

4-Port USB DVI Multi-View KVM™ Switch



Front



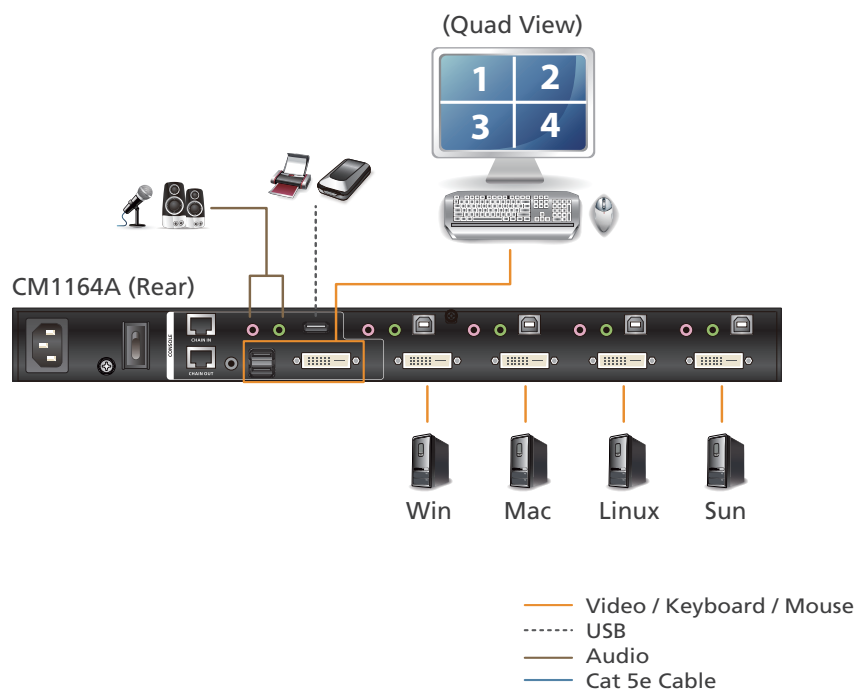
Rear



Features

- Multi-view console controls up to four video sources on one screen with display modes including Quad View, Picture in Picture (PiP), Picture by Picture (PbP), and Picture on Picture (PoP)
- System configuration via front panel, OSD, IR Remote – display mode and port selection
- Easily resize and / or reposition any PiP or PbP to suit users' viewing needs
- DCC (Daisy Chain Control) — Controls up to 3 additional CM1164A units from a single console
- Cascade up to 2 levels — Controls up to 16 computers (with up to 4 x 4 Multi-view mode)
- [Boundless Switching](#) – Simply moves the mouse cursor across windows to switch to other video sources
- [Video DynaSync™](#) – exclusive ATEN technology eliminates boot-up display problems and optimizes the resolution when switching among different sources
- HDCP 1.4 compliant
- Supports RS-232 commands
- Drop down menu – edit display windows and other functions with the mouse and on-screen control panel
- Console mouse port emulation / bypass feature that supports most mouse drivers and multifunction mice
- Console keyboard emulation / bypass feature that support most multimedia keyboards
- Independent switching for USB peripheral port, audio function and KVM switch focus
- Auto Scan feature
- Power on detection
- Multilingual keyboard mapping – supports English, French, Japanese, and German keyboards
- Full bass response provides a rich experience for 2.0 channel audio
- Supports keyboard combinations via emulation (for Sun / Mac)

Setup > CM1164A



- **Quad View** displays all four computers / video sources on the display



- **PiP Dual** – shows two computers / video sources, with only half of the actual display visible



- **PiP Triple** – shows three computers / video sources at one time



- **PiP Quad** – shows four computers / video sources at one time, but unlike in Quad View, one display takes up the whole screen, while the other three displays are occupying only the right side of the screen



Note: The screen size of the each display depends on the resolution of the computer / video source connected to the port

Specifications

Function	CM1164A
Computer Connections	4
Port Selection	Pushbuttons, Hotkeys, IR Remote Control, On-Screen Display (OSD), Mouse, RS-232 Commands
Connectors	
Console Ports	2 x USB Type A Female 1 x Single Link DVI-D Female (White) 2 x 3.5mm Audio Jack Female (Green; 1 x front panel, 1 x rear panel) 2 x 3.5mm Audio Jack Female (Pink; 1 x front, 1 x rear) 2 x RJ-45
KVM Ports	4 x USB Type B Female 4 x Single Link DVI-D Female (White) 4 x 3.5mm Audio Jack Female (Green) 4 x 3.5mm Audio Jack Female (Pink)
Power	1 x IEC320 Jack
USB Hub	2 x USB 2.0 Type A Female
Emulation	
Keyboard / Mouse	USB
Switches	
Selected	11 x Pushbuttons
Video	1920 x 1200 @ 60Hz (DVI-D)
LEDs	
KVM	4 (Orange)
Audio	4 (Green)
USB	4 (Green)
Power Consumption	AC110V: 9.7W / AC220V: 9.5W
Environmental	
Operating Temperature	0 - 40°C
Storage Temperature	-10 - 60°C
Humidity	0-80% RH, Non-condensing
Physical Properties	
Housing	Metal
Weight	2.46 kg (5.42 lb)
Dimensions (L x W x H)	43.72 x 16.40 x 4.40 cm (17.21 x 6.46 x 1.73 in.)
Carton Lot	3 pcs
Included Accessories	4x KVM Cables (DVI-D, USB, Audio); 1x Power Cord; 1x IR Remote Control; 1x Rack Mount Kit

Optional Accessories

Type	Part No. / Spec.	Page No.
USB DVI Single Link KVM Cables	2L-7D02U (1.8 m), 2L-7D03U (3 m), 2L-7D05U (5 m)	Refer to ATEN Catalog 12-3 O
IR Extender Cable	2XRT-0003G	Refer to ATEN Catalog 12-4

2L-2910 305M HDBaseT SF/UTP Cat 6 Cable



The 2L-2910 is a twisted pair cable engineered for optimum signal transmission at resolutions up to 4K including digital and analogue data, audio, and video applications. The cable supports sweep frequency up to 400 MHz and has been verified to meet performance requirements set by the HDBaseT Alliance.

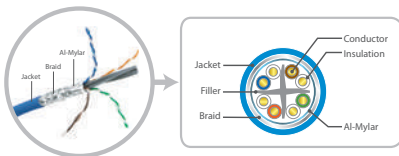
The 2L-2910 supports long distance connections while safeguarding transmission quality. The outer metal layer and the braid protect signal transmissions from electromagnetic interference and reduce the impact caused by electrical noise.

The 2L-2910 utilizes SF/UTP design with four unshielded 23 AWG twisted pair conductors. Among the four unshielded twisted pair conductors, there is one cross filler to reduce cross talk. Most importantly, the cable meets the requirements set by ANSI/ TIA-568-C.2 (2009) ensuring high performance in electrical transmission.



Features

- Optimized for multiple distributions including HD video, audio, Ethernet, power and control
- Verified to meet performance requirements set by HDBaseT Alliance
- Supports sweep frequency up to 400 MHz
- Supports up to 4K data transmission
- Conductor material: 23 AWG bare copper
- Outer shielded material: Al Mylar tape
- Braid wire: tinned copper
- Flame test UL 1685 (CM rated), RoHS compliant
- Compatible with ATEN HDBaseT extenders and splitters
- Regulatory:
 - PoE: IEEE 802.3af (PoE)/ IEEE 802. 3at (PoE+)
 - Electrical Transmission: ANSI/TIA-568-C.2 (2009), ISO/IEC 11801 (Edition 2.2), IEC 61156-5 (Edition 2.1)
 - Material and Construction: UL 444, CSA 22.2 NO.214





2L-2910 Specifications

Function	2L-2910
Cable Type	Cat 6 SF/UTP
Conductor	
Size	23 AWG
Construction	Solid Bare copper
Number of Pairs	4
Insulation	
Material	Polyolefin
Color codes	Blue & White/Blue stripe 1.08 ± 0.02 mm; Orange & White/Orange stripe 1.05 ± 0.02 mm Green & White/Green stripe 1.08 ± 0.02 mm; Brown & White/Brown stripe 1.05 ± 0.02 mm
Shield	
Material	Al Mylar tape
Coverage	100% Coverage and mylar side facing out
Filler	Polyolefin (PO)
Braid	Tinned Copper
Electrical	
Dc Resistance Unbalance	≤ 5%
Conductor Resistance	≤ 9.38 Ω/100m
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ•km
Mutual Capacitance	≤ 5.6 nF/100m
Pair-To-Ground Capacitance Unbalance	≤ 330 pF/100m
Ac Leakage Current Throught Overall Jacket	≤ 10mA (1.5KV AC)
Spark Test	2.5 KV DC
Minimum bending radius	≥4 times of overall diameter
Delay Skew	45.00 Max.ns/100m
Jacketed	
Average Thickness	0.5 mm+-0.05mm
Diameter	7.4 ± 0.20 mm
Material	Polyvinyl chloride (PVC)
Color	Blue
Environmental	
Temperature (Operating / Storage)	-20°C - 60°C
Physical Properties	
Weight	17.57 kg (38.7 lb)
Cable Length	305m / 1000ft

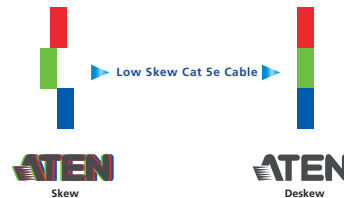
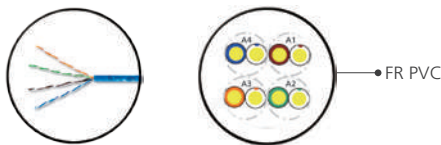
2L-2801 305M Low Skew Cat 5e Cable

Analog video presents a high quality image when the computer is directly connected to the monitor by short cables. "Skew" is the color phase and time errors that occur when R/G/B video signals are sent over long distance Cat 5e cables which can result in smeared, less sharp and color-fringed images. To remedy this distortion, ATEN developed a Low Skew Cat 5e cable. This high performance cable is suitable for the audio and video transmission of a wide range of video and KVM extenders. To eliminate blur and bleeding images and to ensure clear video transmissions, use 2L-2801 Low Skew Cat 5e Cable.



Features

- Supports high quality RGB video transmissions
- Contains 305 m (1000 ft.) low skew cable
- Delay Skew: 1 ~ 350 MHz 20nS/100 m Max.
- Outer jack material: FR PVC
- Outer material: unshielded
- Conductor material: 24 AWG solid bare copper
- Compatible with ATEN analog Cat 5 video extenders, KVM extenders and Cat 5 KVM switches
- UL, ETL approved





2L-2801 Specifications

Function	2L-2801
Item	24AWG × 4p
Cable Length	305 m/ 1000 ft
Conductor Resistance	9.38 Ohm/100m/20°C Max.
Mutual Capacitance	56 Pf/M Max.
Dielectric strength	Ac 1.5 Kv/2 Sec.
Spark Test	2.5 Kv
Insulation	
Unaged	Tensile Strength: 2400 Psi Min. (1.69 Kg/M(mxm))
Aged	Tensile Strength: Unaged Min. 75%(100°C×48hrs) Elongation: Unaged Min. 75%(100°C×48hrs)
Jacketed	
Unaged	Tensile Strength: 2000 Psi Min.(1.41 Kg/M(mxm)) Elongation: 100% Min.
Aged	Tensile Strength: Unaged Min. 85%(100°C×240hrs) Elongation: Unaged Min. 50%(100°C×240hrs)
Insulation Shrinkback	150m/M, 121°C±1°C×1hr ≤ 9.5m/M
Cold Bend Test	-20°C×4hrs No.Crack
Flame Retardant Test	CMR
Ac Leakage Current Throught Overall Jacket	Ac 1500v ≤ 10 Ma
Dc Resistance Unbalance	5% Max.
Pair-To-Ground Capacitance Unbalance	330 Pf/100m Max.
Characteristic Impedance	1 - 350 Mhz 100±15 Ohms
Structural Return Loss	350 Mhz 10.6db Min.
Propagation Delay	350 Mhz 536ns/100m Max.
Delay Skew	1 - 350 Mhz 20ns/100m Max.
Physical Properties	
Weight	9.80 kg

2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H

High Speed HDMI Cable with Ethernet (0.3, 0.6, 1, 1.8, 2, 3, 5, 10, 15, 20 m)



ATEN High Speed HDMI Cable with Ethernet provides an uncompressed, all-digital interface for both audio and video signals. Our cables infuse high-quality copper wire to resist interference for improved image clarity. We offer HDMI cable at lengths of 1 to 20 meters with resolutions up to True 4K (4096 x 2160 @ 60Hz).



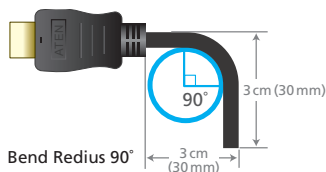
Features

- Superior video quality:
 - True 4K (4096 x 2160 @60Hz): 2L-7D01H, 2L-7D02H, 2L-7D02H-1, 2L-7D03H
 - 4K (4096 x 2160 / 3840 x 2160 @30 Hz): 2L-7DA3H, 2L-7DA6H, 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H
- HDMI Ethernet Channel functionality: additional dedicated data channel supports networking¹
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Gold-plated connectors for reliable data transmissions
- Available in lengths from 0.3 to 20 m
- RoHS-compliant
- Bend Radius 90°²

Note: 1. Feature only available if linked devices are HDMI Ethernet Channel enabled
2. Swings 100 times between angles of +/- 90 degrees, at a frequency of 13 times per minute



Gold-plated connectors



Specifications

Function	2L-7DA3H / 2L-7DA6H / 2L-7D01H / 2L-7D02H / 2L-7D02H-1 / 2L-7D03H / 2L-7D05H / 2L-7D10H / 2L-7D15H / 2L-7D20H
Video Resolution	2L-7D01H, 2L-7D02H, 2L-7D02H-1, 2L-7D03H: Up to 4096X2160 @60Hz 2L-7DA3H, 2L-7DA6H, 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H: Up to 4096X2160 @30Hz
Physical Properties	
Cable Length	0.3m, 0.6m, 1m, 1.8m, 2m, 3m, 5m, 10m, 15m, 20m
Cable Color	Black
Cable Outer Dimension	2L-7DA3H, 2L-7DA6H, 2L-7D01H, 2L-7D02H, 2L-7D03H: 6.0+-0.15mm 2L-7D02H-1, 2L-7D05H: 6.0+-0.2mm / 2L-7D10H: 7.3+-0.2mm / 2L-7D15H, 2L-7D20H: 10.0+-0.2mm
Conductor Gauge	2L-7DA3H, 2L-7DA6H, 2L-7D01H, 2L7D02H, 2L7D02H-1, 2L-7D03H, 2L-7D05H: 30AWG 2L-7D10H: 28 AWG / 2L-7D20H: 26 AWG / 2L-7D15H: 24 AWG
Conductor Material	2L-7D01H, 2L-7D02H, 2L-7D02H-1, 2L-7D03H: Solid bare Copper 2L-7DA3H, 2L-7DA6H, 2L-7D05H, 2L-7D10H, 2L-7D15H, 2L-7D20H:Tinned Copper
Connector Plating	Gold
Connector Type	HDMI (19pin) Male to Male
Cable Shield Type	Aluminum Foil
Cable Jacket Type	PVC
Environmental	
Operating Temperature	80° C
Rating	UL VW-1 (Flame rate), CSA

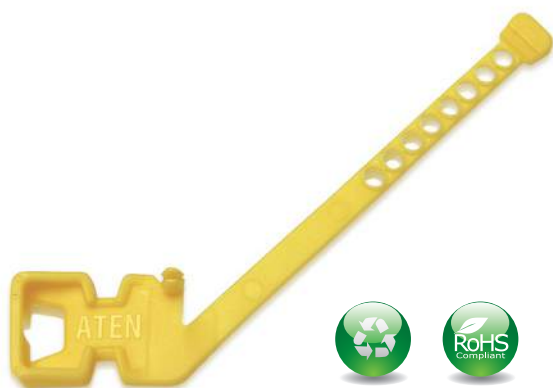
Cables

Images	Part No.	Length (m)	Interface	To PC / Source Interface	To Switch Interface	Compatible Products
	2L-7D02DD 2L-7D03DD 2L-7D05DD 2L-7D10DD	1.8 3 5 10	DVI-D	 DVI-D Male (Dual Link)	 DVI-D Male (Dual Link)	All ATEN's DVI Devices
	2L-7D02V	1.8	DVI-D	 DVI-D Male (Single Link)  Audio Plug	 DVI-D Male (Single Link)  Audio Plug	VS172, VS174, VS162, VS164, VE600A, VE602, VE606, VE607, CE624
	2L-2402A	1.8	VGA	 HDB-15 Male  Audio Plug	 HDB-15 Female  Audio Plug	VS1204T, VS1208T, VS1504, VS1508, VM0404, VS0202, VS0201 / VS0401, VS0102 / VS0104 / VS0108, VS0116, VE170, VE170Q, VE200, VC180, VE156, VE157
	2L-2401 2L-2403 2L-2406 2L-2410 2L-2420 2L-2440	1.8 3 6 10 20 40	VGA	 HDB-15 Male	 HDB-15 Female	All ATEN's VGA Devices
	2L-2502 2L-2503 2L-2505 2L-2510 2L-2515 2L-2520 2L-2530	2 3 5 10 15 20 30	VGA	 HDB-15 Male	 HDB-15 Male	All ATEN's VGA Devices
	2L-7D02U 2L-7D03U	1.8 3	DVI-D USB	 USB Type A Male  DVI-D Male (Single Link)  2 Audio Plugs	 USB Type B Male  DVI-D Male (Single Link)  2 Audio Plugs	CM1164A
	2L-7D02DP 2L-7D03DP	2 3	DisplayPort	 DisplayPort	 DisplayPort	All ATEN's DisplayPort Devices
	2L-2801 (Shielded)	305	RJ-45	 RJ-45	 RJ-45	All ATEN's Cat 5 / 5e / 6 / 6a Devices for Video & Audio Communication
	2L-4101-GR 2L-4102-GR 2L-4103-GR 2L-4105-GR 2L-4110-GR 2L-4115-GR 2L-4120-GR	1 2 3 5 10 15 20	RJ-45	 RJ-45	 RJ-45	All ATEN's Cat 5 / 5e / 6 / 6a Devices for Data Communication
	2L-2910	305	RJ-45	 RJ-45	 RJ-45	All ATEN HDBaseT products

2X-EA12 LockPro™ - HDMI Cable Lock

ATEN LockPro™, the world's most effective universal HDMI cable lock.

LockPro™, an ATEN exclusive technology, was created to prevent signal loss by ensuring a durable connection between your HDMI cables and devices in a simple, one-piece design. Since most HDMI connectors do not have a locking mechanism, it's common for them to become detached or loosened and create intermittent up to complete signal loss - making cable lock solutions essential.



Features

- Innovative design improves stability and flexibility
- One-piece and reusable design for easy installation and removal
- Ensures strong and reliable HDMI cable connections
- Universal design for securing most cables (not limited to HDMI)
- Environmentally safe – RoHS compliant and recyclable
- Sold 10 pieces per pack

2X-EA12 Specifications

Function	2X-EA12
Storage Temperature	-20-60°C
Humidity	0-95% R.H, Non-Condensing
Physical Properties	
Weight	1.4 g
Dimensions (L x W x H)	8.61 x 6.47 x 0.66 cm (3.39 x 2.55 x 0.26 in.)

One-piece Design for Easy Installation



1 Loosen the screw above the port



2 Slide the LockPro™ over the loosened screw



3 Tighten the screw firmly



4 Wrap the LockPro™ around the cable



5 Fasten the LockPro™ strap

Accessories

Images	Part No.	Product Name.	Compatible Products
	2A-127G	DVI to HDMI Converter	Compatible with all models equipped with DVI interface
	2A-128G	HDMI to DVI Converter	Compatible with most models equipped with HDMI interface
	2L-5202B 2L-5203B 2L-5205B	Port Switching VGA Cable	VS0801A, VE2812T
	2XRT-0003G	IR Receiver Cable (38 KHz)	VM3404H / VM3909H, VM6404H, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA / VM0808HA, VM0202H, VM5404D / VM5808D, VM0404, VS482, VS0201 / VS0401, VS481B, VS481C, VS0801HB, VE810, VP1920, VP2730, CM1284, CM1164A, VE805R
	2XRT-0003G-1	Full Range IR Receiver (30-56 KHz)	VM3404H / VM3909H, VE802, VE1812, VE814A, VE8900 / VE8950, VE816R, VE883, VE1832, VE2812T, VE2812R, VE2812EUT, VE2812UST
	2XRT-0004G	Full Range IR Emitter (30-56 KHz)	VK1100, VK2100, VE802, VM3404H / VM3909H, VE1812, VE814A, VE8900 / VE8950, VE816R, VE805R, VE883, VE1832
	2XRT-0007G	IR Remote Control	VS0801H, VS881, VS0801A, VS0801HB
	2XRT-0010G	IR Remote Control	VS482
	2XRT-0013G	IR Remote Control	CM1164A, CM1284
	2XRT-0101G	IR Remote Control	VM0202H, VS481A, VS481B, VS261 / VS461, VS0201 / VS0401, VS481C
	2XRT-0106G	IR Remote Control	VM3404H, VM6404H, VM5404H / VM5808H, VM0404HB / VM0808HB, VM0404HA / VM0808HA, VM5404D / VM5808D, VM0404, VM0202H
	2XRT-0301G	IR Remote Control	VE200
	2XRT-0109G	IR Remote Control	VP1920
	2XRT-0110G	IR Remote Control	VP2730
	2X-020G	Mounting Kit	VM0404, VS0401, VS0108
	2X-RC1700	Video Wall Rack	
	2X-030G	TV Bracket Set (L+R)	
	2X-031G	Single Rack Mounting Kit	VK1100



Corporate Headquarters

ATEN International Co., Ltd.
3F., No.125, Sec. 2, Datung Rd., Sijhih District,
New Taipei City 221, Taiwan
Phone: +886-2-8692-6789 Fax: +886-2-8692-6767
<http://www.aten.com/global/en/>
E-mail: marketing@aten.com

America Region:

ATEN Technology Inc.
15365 Barranca Parkway, Irvine, CA 92618, U.S.A.
Phone: +1-949-428-1111 Fax: +1-949-428-1100
<http://www.aten.com/us/en/>
E-mail: sales@aten-usa.com

ATEN New Jersey Inc.
220 Davidson Avenue, Suite 404, Somerset,
NJ 08873, U.S.A
Phone: +1-732-356-1703 Fax: +1-732-356-1639
<http://www.aten.com/us/en/>
E-mail: sales@aten-usa.com

Oceania Region:

ATEN ANZ Pty Ltd.
Suite 3. 19, 32 Delhi Road, North Ryde,
NSW 2113, Australia
Phone: +61-2-9114-9933 Fax: +61-2-8072-3723
<http://www.aten.com/au/en/> E-mail: sales@au.aten.com

Asia Pacific Region:

ATEN China Co., Ltd.
18/F, Tower A, Horizon International Tower, No.6,
Zhichun Road, Haidian District, Beijing, China 100088
Phone: +86-10-5225-0110 Fax: +86-10-8296-1318
<http://www.aten.com/cn/zh/> E-mail: sales@aten.com.cn

ATEN Japan Co., Ltd.
Tokyo Headquarters
ATEN Bldg. 8-4, Minami-senju 3-chome, Arakawa-ku,
Tokyo 116-0003, Japan
Phone: +81-3-5615-5810 Fax: +81-3-3891-3810
<http://www.aten.com/jp/ja/> E-mail: sales@atenjapan.jp

Osaka Branch
Awajimachi Dai-Building 3F
3-1-9, Awajimachi, Chuo-ku, Osaka-shi, 541-0047, Japan
Phone: +81-6-6229-5810 Fax: +81-6-6229-8810
<http://www.aten.com/jp/ja/> E-mail: sales@atenjapan.jp

ATEN Korea Co., Ltd.
B-303, 32, Digital-ro 9-gil,
Geumcheon-gu, Seoul 08512, Korea
Phone: +82-2-467-6789 Fax: +82-2-467-9876
<http://www.aten.com/kr/ko/> E-mail: sales@aten.co.kr

Atech Peripherals, Inc.
6F., No.133, Sec. 2, Datung Rd., Sijhih District,
New Taipei City 221, Taiwan
Phone: +886-2-8692-6969 Fax: +886-2-8692-6926
<http://www.aten.com/tw/zh/> E-mail: taiwan@aten.com

ATEN India Rep. Office
Unit 406, 4th Floor, Barton Center, M.G. Road,
Bangalore - 560001, India
Phone 1: +91-80-48517231 Phone 2: +91-9686151525
<http://www.aten.com> E-mail: South-Asia@aten.com

EMEA Region:

ATEN Infotech N.V.
Mijnwerkerslaan 34, 3550 Heusden-Zolder, Belgium
Phone: +32-11-531543 Fax: +32-11-531544
<http://www.aten.com/eu/en/> E-mail: sales@aten.be

ATEN U.K. Limited
466 Malton Avenue, Slough SL1 4QU, U.K.
Phone: +44-1753-539-121 Fax: +44-1753-215-253
<http://www.aten.com/gb/en/> E-mail: sales@aten.co.uk

ATEN Poland Sp. z o. o.
2 Gottlieb Daimler Street 02-460 Warsaw, Poland
Phone: +48-514-120-220
<http://www.aten.com/pl/pl/>
E-mail: poland@aten.com

ATEN Russia
Office 14212, No.14 Sereblyakova Proezd,
Moscow, Russia
Phone: +7-495-134-2808
<http://www.aten.com/ru/ru/> E-mail: russia@aten.com

ATEN Info Iletisim Ltd.
Beştepe Mah.Yaşam Cad., Neorama Is Merkezi 13-A / 76
Yenimahalle Ankara, Turkey
Phone: +90-312-284-00-27 E-mail: turkey@aten.com

