



Connect Further, Control Easier

HDBaseT Solutions



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Contributor to the Next Generation of Connectivity

A longtime member of the HDBaseT™ Alliance, ATEN has over 30 qualified HDBaseT trainers and over 20 Pro AV solutions certified by HDBaseT™, including video matrix switches and high-definition definition video/KVM extenders and splitters.

In addition to new Contributor member privileges such as a dedicated company page in the HDBaseT Alliance's Installer Zone, ATEN will also be invited to share the benefits of 40 years of IT management and KVM control experience to define specifications for products that further accelerate the integration of AV and IT technologies, in turn helping both customers and solution partners to stay ahead of the curve.

ATEN HDBaseT Profile

- Since 2013
- Contributor member
- 30+ ATEN-HDBaseT trainers
- 20+ ATEN-HDBaseT products
 - Modular Matrix Switches
 - Video Matrix Switches
 - Video Splitters
 - Video Extenders
 - KVM Extenders



Less is More with HDBaseT

HDBaseT technology is ideal for professional AV installations and provides a simple and cost-effective solution for transmitting 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



Long-Distance Transmission

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



Flexible Control

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



Ultra HD and High Quality Audio

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



Anti-jamming Design

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



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



USB



Control
(RS232/IR/CEC)



Power



HDMI



Audio



Ethernet



HDBaseT



HDBaseT KVM Extender Series



Zero Latency Signal Extension

ATEN HDBaseT KVM Extenders allow you to connect and control keyboard, video, and mouse signals from computers located up to 150m away from your console. USB and RS-232 connectivity enables applications that require touch panel support and the integration of additional devices.

CE920

USB DisplayPort HDBaseT 2.0
KVM Extender

Long Reach
Mode



CE820

USB HDMI HDBaseT 2.0
KVM Extender



Long Reach
Mode



CE624

USB DVI Dual View HDBaseT 2.0
KVM Extender

Long Reach
Mode



CE620

USB DVI HDBaseT 2.0
KVM Extender

Long Reach
Mode



CE611

Coming Soon

Compact size

Mini USB DVI HDBaseT
KVM Extender



CE610A

DVI HDBaseT KVM Extender
with ExtremeUSB®

←EXTREME→
USB®



Comparison

Model	CE920	CE820	CE624	CE620	CE611	CE610A
Interface	DisplayPort / HDBaseT	HDMI / HDBaseT	DVI / HDBaseT			
Unit to Unit	Cat 5e / 6 / 6a x 1					
Inputs to Outputs	1 to 1					
Max. Resolution / Distance	4K@100m; 1080p@100m		1920 x 1200@100m; 1080p@100m			
HDCP	HDCP 1.4	HDCP 2.2	HDCP 1.4	N/A	N/A	HDCP 1.4
Long Reach Mode (1080p@150m)	Active enable	Active enable	Active enable	Active enable	N/A	Passive enable
Dual View	N/A	N/A	•	N/A	N/A	N/A
Audio	• (DP)	• (HDMI)	• Mic in / Speaker out	• Mic in / Speaker out	• Mic in / Speaker out	N/A
	• Mic in / Speaker out	• Mic in / Speaker out				
RS-232 Channel	•	•	•	•	•	N/A
Ethernet	•	•	N/A	N/A	N/A	N/A
USB Channel	•	•	•	•	•	• (40 Mbps)
POH	N/A	N/A	N/A	N/A	N/A	N/A

Healthcare – MRI Diagnostics

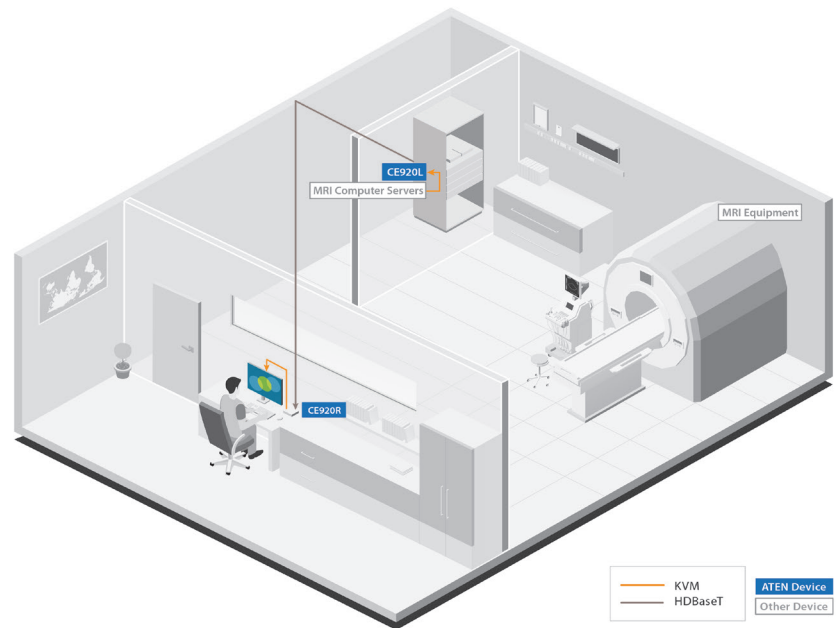
A hospital implemented a new, cutting-edge MRI-guided radiation therapy as part of their ongoing development of leading treatments for cancer and brain disorders. They required a reliable extension solution with high-precision video quality and accuracy that would meet the high demands of such critical medical and healthcare applications.

ATEN Solution

By adopting ATEN's HDBaseT KVM Extenders, MRI equipment is accessed and operated with zero latency while uncompressed video with pixel-to-pixel quality is reliably delivered to the operator's room for real-time diagnosis.

CE920 –

USB DisplayPort HDBaseT 2.0 KVM Extender
(4K@100m)



Retail – Self-Service Kiosk and Digital Signage

A multinational restaurant chain wanted to enhance its overall service and customer satisfaction by increasing related operational efficiency, reducing customer wait time, and improving the overall in-store experience. This involved the installation of self-service kiosks that automate the order and payment process, and the integration of a digital signage solution to offer interactive advertisements and order notifications.

ATEN Solution

ATEN's HDBaseT KVM Extenders, supporting touch and payment interfaces, allow flexible placement of self-service kiosks on the shop floor while extending to computers located in a secure room. Integration with a digital signage system enabled distribution of interactive content spread across multiple locations throughout the store.

CE820 –

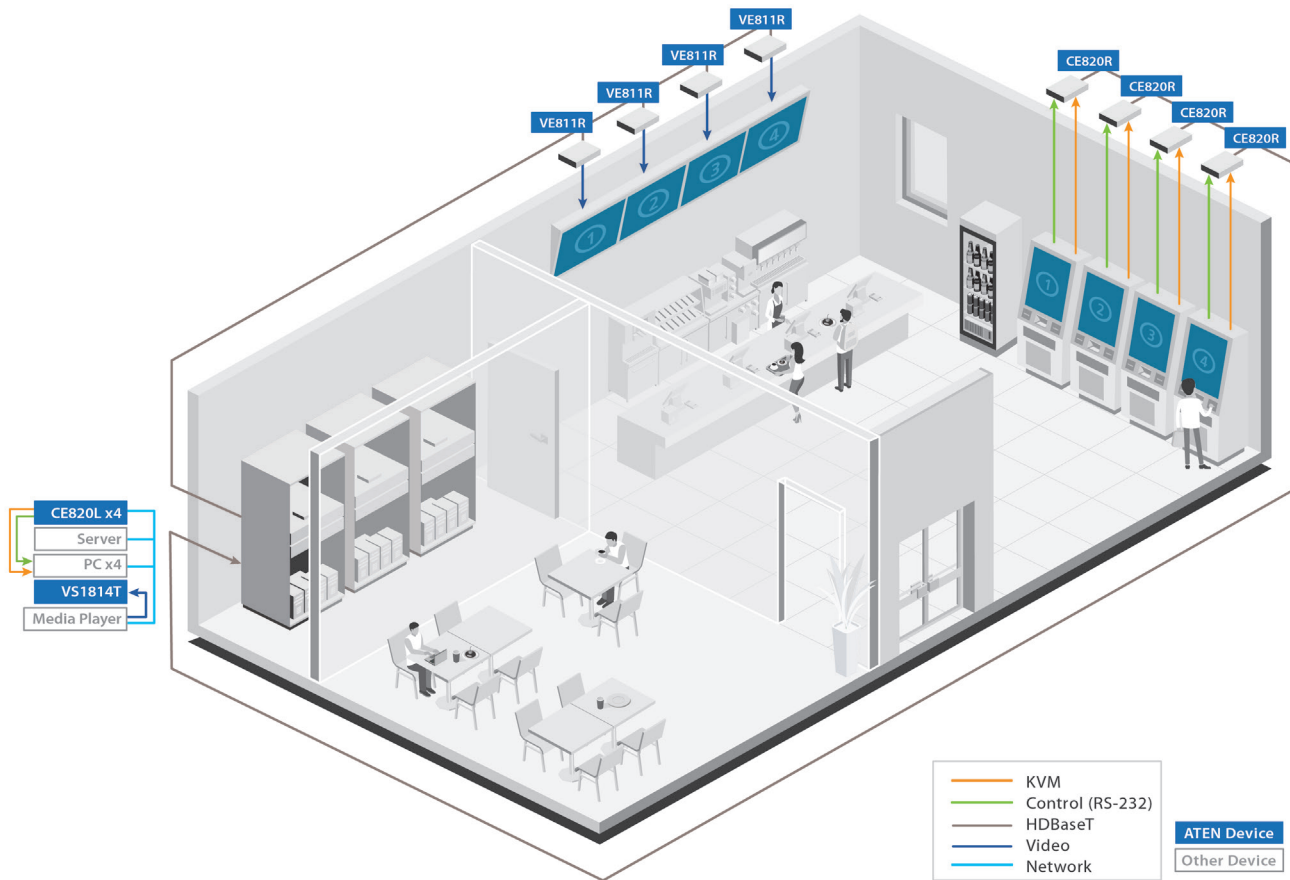
USB HDMI HDBaseT 2.0 KVM Extender (4K@100m)

VS1814T –

4-Port HDMI HDBaseT Splitter (HDBaseT Class A)

VE811R –

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





HDBaseT Matrix with Video Wall Solutions

Seamless, Tear-free Video Walls

ATEN HDBaseT Matrix switches and HDBaseT receivers with scaler ensure long distance video transmission and provide seamless switching and scaling functionality, giving a flawless video wall experience.

VM3200 / VM1600A

32x32 / 16x16 Modular Matrix Switch

VM7514 / VM8514

Compatible HDBaseT I/O Boards



VM3909H / VM3404H

9x9 / 4x4 HDMI HDBaseT-Lite Matrix Switch



VE805R

HDMI HDBaseT-Lite Receiver with Scaler



VE816R

4K HDMI HDBaseT Receiver with Scaler



Broadcasting & Media - Artear, Argentina

Artear, Argentina's most prolific television network, built a state-of-the-art newsroom to keep setting the pace for news broadcasting and creative, high-quality content. This involved centralized control of a 10x6 and 5x5 video wall from multiple devices, extension of video across long distances, as well as switching among different video wall layouts and contents with minimal lag. Power stability and redundancy for 24-7 operation was critical.

ATEN Solution

The support for extended HDBaseT transmission ensured that the solution was easily adaptable to the physical architecture of the newsroom while providing seamless switching and video wall functionality.

VM1600 – 16 x 16 Modular Matrix Switch

VM7404 – 4-Port 3G-SDI Input Board

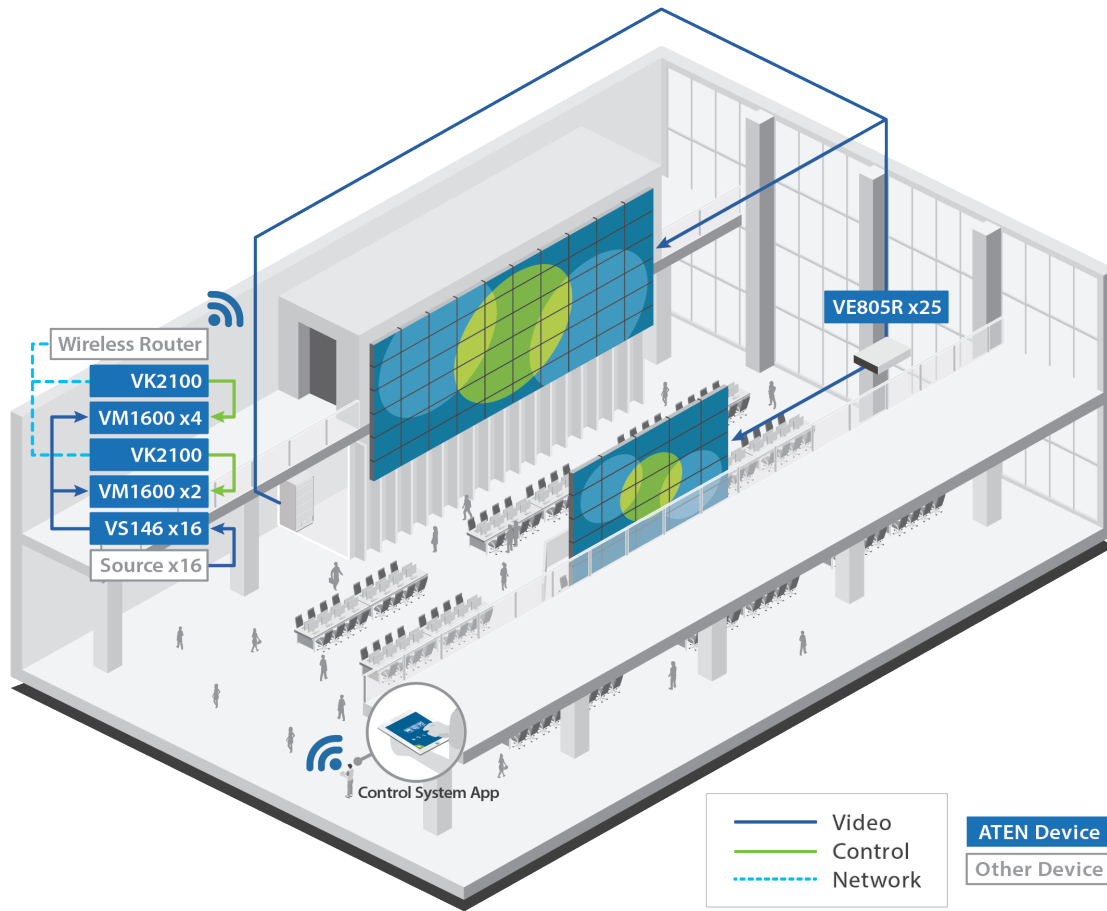
VM8804 – 4-Port HDMI Output Board with Scaler

VM8514 – 4-Port HDBaseT Output Board

VE805R – HDMI HDBaseT-Lite Receiver with Scaler

VK2100 – ATEN Control System - Control Box

VS146 – 6-Port 3G-SDI Splitter



The background of the slide is a photograph of a modern interior space, likely a lobby or hallway. Several large digital displays are mounted on pillars, showing a woman in a yellow dress. The displays are arranged in a row, receding into the distance. The pillars are made of light-colored wood and grey stone. The floor is polished and reflects the ambient light. A large green circle is overlaid on the left side of the image, containing the text.

HDBaseT Media Distribution Solutions

High Quality Media Distribution

ATEN HDBaseT Media Distribution solutions are economical ways to send high-quality HDMI content over a Cat 5/6 cable to multiple displays over long distances from a single input source.

VS1814T / VS1818T

4-Port / 8-Port HDMI HDBaseT Splitter



VE801R

HDMI HDBaseT-Lite Receiver
(4K@40m)



VE812R

HDMI HDBaseT Receiver
(4K@100m)



VE811R

HDMI HDBaseT Receiver
(Supports Long Reach Mode – up to 150m)



Transportation – Train Station, Japan

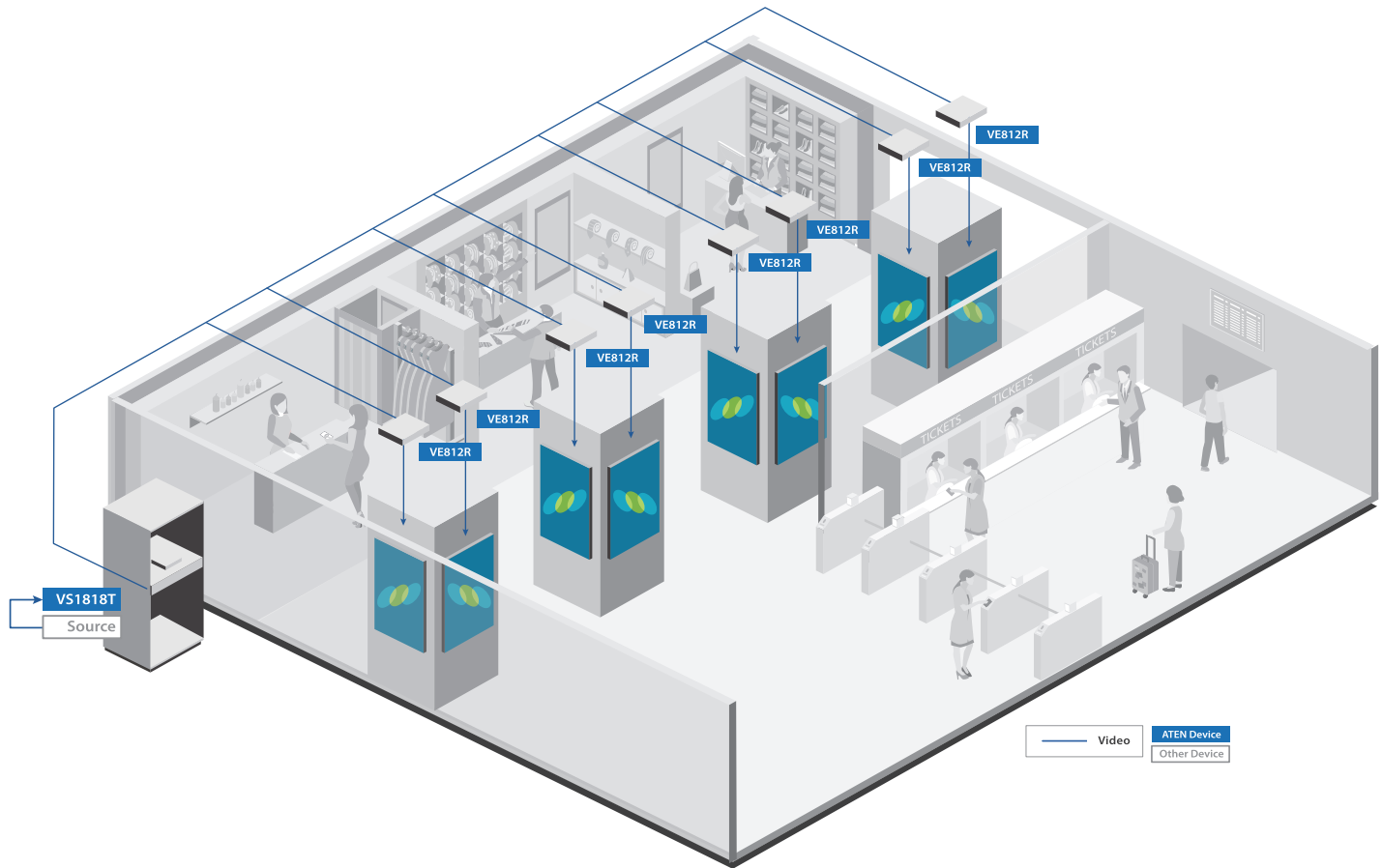
One of the biggest transportation hubs in the city of Osaka, Japan wanted to distribute eye-catching advertisements and important scheduling information to as many passengers as possible. To achieve this effectively they required 4K content broadcasted to multiple displays mounted vertically on pillars throughout the station, with transmission cloned simultaneously to more than 30 screens that are up to 100 meters apart. The solution needed to be centrally managed.

ATEN Solution

Utilizing HDBaseT technology to ensure long distance transmission, the ATEN solution reduced the number of signage players required in the installation by broadcasting one input source to multiple destinations simultaneously while also reducing heavy cabling.

VS1818T – 8-port HDMI HDBaseT Splitter

VE812R – HDMI HDBaseT Receiver (4K@100m)





HDBaseT Video Extender Series

HDBaseT 2.0 (Up to 100M)

VE1832

True 4K HDMI/USB HDBaseT 2.0 Extender



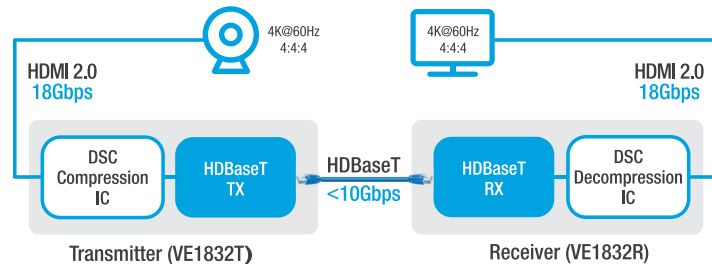
Extend True 4K video via single cat 6/2L-2910 cable up to 100 meters by Display Stream Compression (DSC) technology



Supports Independent Stereo & SPDIF Toslink and Coaxial audio I/O

Display Stream Compression (DSC)

- VESA standard for visually-lossless compression
- Video is compressed line by line, meaning very low latency
- Very light compression ratio of 2:1 or 3:1



HDBaseT Class A (Up to 100M)

VE2812T

HDMI & VGA
HDBaseT Transmitter



4K



VE2812R Coming Soon

HDMI HDBaseT Receiver
with Audio De-Embedding



4K



VE1812

HDMI HDBaseT Extender
with POH



4K



VE816R

4K HDMI HDBaseT
Receiver with Scaler



4K



VE814A

HDMI HDBaseT Extender
with Dual Output



4K



VE813A

HDMI / USB HDBaseT
Extender



4K



VE812

HDMI HDBaseT Extender



4K



VE811 Compact size

HDMI HDBaseT Extender



4K



HDBaseT Class B (Up to 70M)

VE1830 Coming Soon

True 4K HDMI HDBaseT-Lite Extender



VE901

DisplayPort HDBaseT-Lite Extender



VE805R

HDMI HDBaseT-Lite Receiver with Scaler



VE802

HDMI HDBaseT-Lite Extender with POH



VE801

HDMI HDBaseT-Lite Extender



VE601

DVI HDBaseT-Lite Extender



Comparison

Model	VE1832	VE2812T	VE2812R	VE1812	VE816R	VE814A	VE813A	VE812	VE811
Video Interface	HDMI	HDMI & VGA	HDMI	HDMI	HDMI	HDMI x 2	HDMI	HDMI	HDMI
HDBaseT Class	HDBaseT 2.0	HDBaseT 1.0 Class A							
Max. Resolution / Distance	True 4K@100m; 1080p@100m	4K@100m; 1080p@100m							
HDR	•	N/A	N/A	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	2.2	2.2
Long Reach Mode (1080p@150m)*	• (Active)	• (Active)	• (Active)	• (Active)	• (Passive)	• (Active)	• (Passive)	• (Passive)	• (Active)
Local Output	N/A					•	N/A		
Audio	• (HDMI / Stereo / Toslink / Coaxial)	• (HDMI / Stereo)	• (HDMI / Stereo / Coaxial)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)	• (HDMI)
RS-232	•	•	•	•	•	•	N/A	N/A	N/A
IR	•	•	•	•	•	•	N/A	N/A	N/A
USB 2.0	•	N/A	N/A	N/A	N/A	N/A	•	N/A	N/A
Ethernet	•	N/A	N/A	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	N/A
Scaler	N/A	N/A	N/A	N/A	•	N/A	N/A	N/A	N/A

* Models marked 'Active' provide Long Reach Mode support which can be activated via a switch on the unit.

Comparison

Model	VE1830	VE901	VE802	VE801	VE805R	VE601
Video Interface	HDMI	DisplayPort	HDMI	HDMI	HDMI	DVI
HDBaseT Class	HDBaseT 1.0 Class B					
Max. Resolution / Distance	True 4K@40m; 1080p@70m	4K@40m; 1080p@70m			1080p@70m	1920 x 1200@40m; 1080p@70m
HDR	•	N/A	N/A	N/A	N/A	N/A
HDCP	2.2	1.4	2.2	2.2	1.4	1.4
Long Reach Mode (1080p@150m)*	N/A					
Local Output	N/A					
Audio	• (HDMI)	• (DP)	• (HDMI)	• (HDMI)	• (HDMI)	N/A
RS-232	•	N/A	•	N/A	•	N/A
IR	N/A	N/A	•	N/A	•	N/A
USB 2.0	N/A	N/A	N/A	N/A	N/A	N/A
Ethernet	N/A	N/A	N/A	N/A	N/A	N/A
POH	N/A	N/A	•	N/A	N/A	N/A
Scaler	N/A	N/A	N/A	N/A	•	N/A

* Models marked 'Active' provide Long Reach Mode support which can be activated via a switch on the unit.

Hospitality – Elevens Bar & Grill, UK

Elevens Bar & Grill, a new sports bar launched by Wales and Real Madrid footballer Gareth Bale, desired a state-of-the-art solution to offer guests an unparalleled sports viewing experience in a stylish and modern setting, with 20 flat screens over two floors which broadcast the biggest live sporting events from around the world in stunning 4K. The solution needed to be simple enough for staff to use for staff to use, while maintaining the option to expand the number of video sources or displays at a later stage.

ATEN Solution

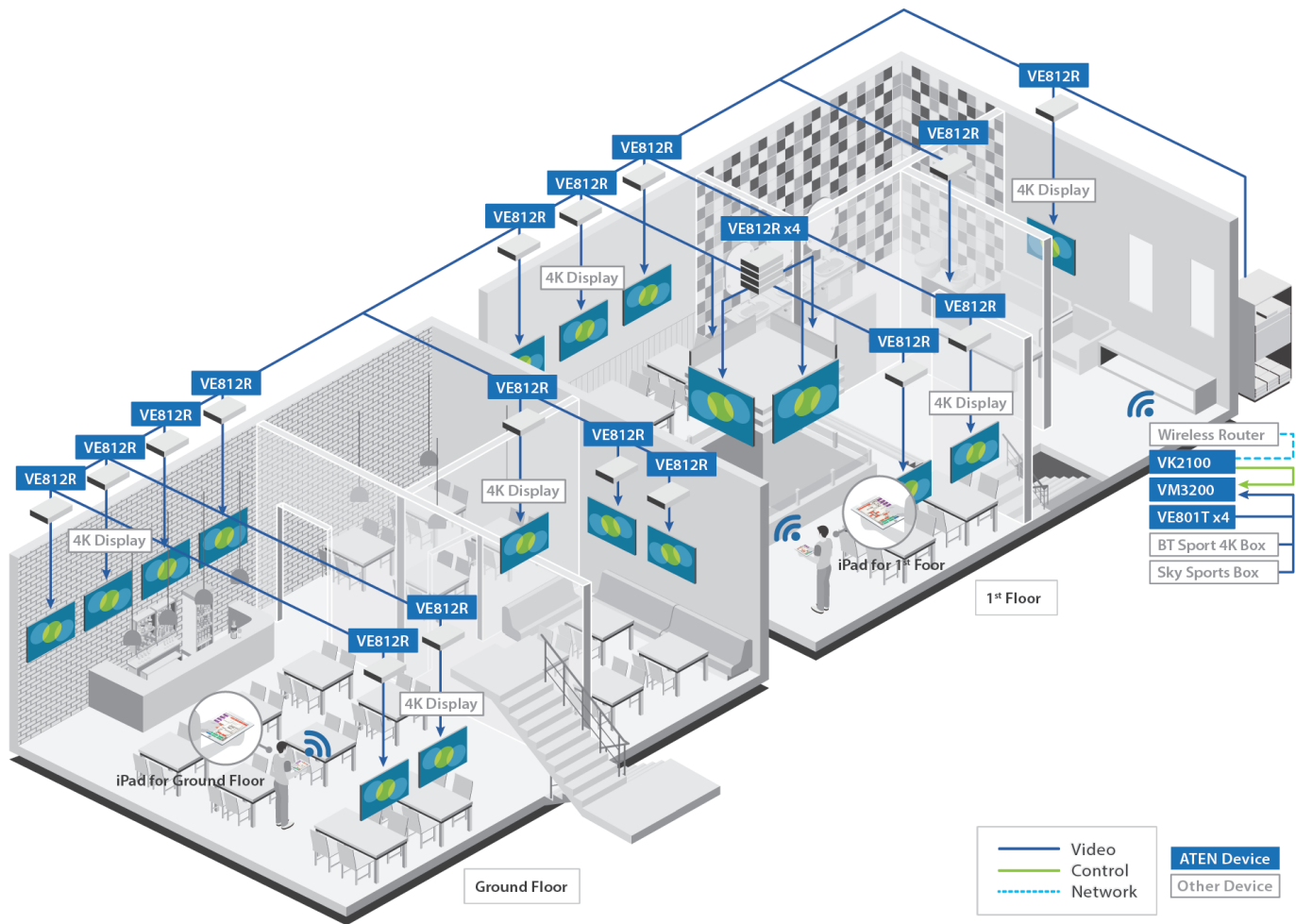
Taking full advantage of its modular matrix switch's full interoperability with HDBaseT technology, ATEN provided the perfect solution to guarantee to smooth distribution of 4K content while also allowing the staff access to easy-to-use content control capabilities for non-technical users via iPad.

VM3200 – 32 x 32 Modular Matrix Switch

VK2100 – ATEN Control System - Control Box

VE801T – HDMI HDBaseT-Lite Transmitter

VE812R – HDMI HDBaseT Receiver



HDBaseT Wall Plate Extender Series



More Interfaces, Less Hassle

Conceal cabling and conveniently place extension inputs and outputs exactly where they are needed, on tables or walls, complimentary of any room décor, with ATEN's HDBaseT Wall Plate Extenders that feature these benefits:



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, DP

VE2812UST / VE2812EUT

HDMI & VGA HDBaseT Transmitter with
US / EU Wall Plate



VE1801UST / VE1801EUT

HDMI HDBaseT-Lite Transmitter with
US / EU Wall Plate



Suggested ATEN Receivers

Model	VE1812R	VE814AR	VE811R	VE801R	VE802R	VE601R	VE901R
Video Output	HDMI	HDMI x 2	HDMI	HDMI	HDMI	DVI	DisplayPort
IR / RS-232	•	•	N/A	N/A	•	N/A	N/A
HDBaseT Class	HDBaseT 1.0 Class A			HDBaseT 1.0 Class B			
Transmission Distance	4K up to 100m; 1080p up to 150m (Long Reach mode enable)			4K up to 40m; 1080p up to 70m			
Long Reach Mode	•			N/A			

Comparison

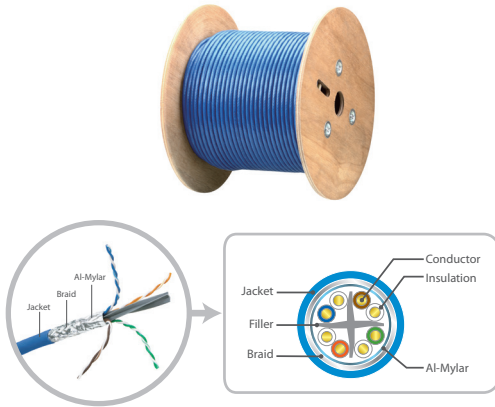
Model	VE2812UST	VE2812EUT	VE1801UST	VE1801EUT
Type	US	MK / EU	US	MK / EU
Video Interface	HDMI & VGA		HDMI	
HDBaseT Class	Class A		Class B	
Max. Resolution / Distance	4K@100m; 1080p@100m		4K@40m; 1080p@70m	
HDCP	2.2		2.2	
Long Reach Mode (1080p@150m)*	• (Active)		N/A	
Audio	• (HDMI / Stereo)		• (HDMI)	
RS-232 Channel	•		•	
IR Channel	•		N/A	

* Models marked 'Active' provide Long Reach Mode support which can be activated via a switch on the unit.

Accessories

2L-2910

305M HDBaseT SF/UTP Cat 6 Cable



- Designed to reduce cross talk
- Optimized for distributing multiple digital signals – 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

2L-7D05H / 2L-7D03H

5 m / 3 m High Speed HDMI Cable with Ethernet



2L-7D02H

1.8 m High Speed HDMI Cable with Ethernet



HDBaseT Installation Guide

For a problem-free HDBaseT installation experience, be sure to get the Implementation Guide.





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