

Business

Rack KVM Switches

master view™

This series features reliable KVM switches designed to meet the needs of moderate to large sized business installations, streamlining PC and server management while accommodating for upgrade and expansion.

The Master View series offers rack-mountable KVM switches ideal for server rooms, data centers, ISPs and test labs. Designed for maximum reliability under the most demanding situations, Master View switches are PS/2 and USB compatible and allow control of up to 16 servers.

- **Expandability**

All ATEN rack KVM switches are easy to expand, simply cascade or daisy-chain additional switches. Then continue expanding for a maximum central control of 512 systems from a single console.

- **Easy Operation**

ATEN rack KVM switches provide three methods to switch among computers: OSD (On Screen Display), hotkeys, and pushbuttons.

- **Password Protection**

For enhanced security, password protection prevents unauthorized access to computers accessible via the OSD.

- **PS/2 and USB Compatible**

ATEN rack KVM switches support computers with PS/2 or USB interface via optional custom cables or converters, and they are compatible with PC, Macintosh and Sun Microsystems platforms.

- **Auto Scanning**

Auto Scan function provides easy monitoring of computers.

- **Video DynaSync™**

Stores the console monitors' EDID to optimize display resolution

Not all products support these features. Please see the comparison chart on page 28 for details.

Business

Rack KVM Switches



master view™
CS1308 / CS1316
8/16-Port PS/2-USB KVM Switch
 Rack-Mountable PS/2 & USB KVM Switch

- One USB-PS/2 console controls 8/16 computers
- Cascade up to 2 levels – control up to 64 or 256 computers
- Dual Interface – supports computers with PS/2 or USB keyboards and mice
- Multiplatform support – Windows 2000/XP/Vista, Linux, Mac, and Sun
- Supports multimedia USB keyboards for PC, Mac and Sun
- Auto PS/2 and USB interface detection
- USB or PS/2 keyboard and mouse emulation – computes boot even when the console focus is elsewhere
- Superior video quality – up to 2048 x 1536; DDC2B
- Computer selection via front panel pushbuttons, hotkeys and Multilingual OSD
- Broadcast Mode – operations simultaneously performed on all selected computers, software installation and upgrading, system wide shutdown, etc.
- Buzzer on/off via hotkey and OSD
- Firmware upgradeable
- Rack-mountable in 19" system rack



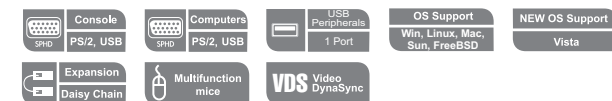
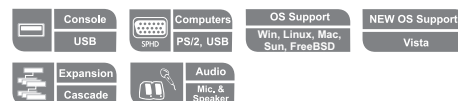
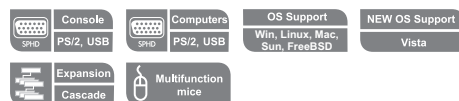
master view™
CS1754 / CS1758
4/8-Port PS/2-USB KVM Switch
 Rack-Mountable PS/2 & USB KVM Switch + Audio

- One USB console controls 4/8 computers
- Cascadable up to 3 levels – control up to 64 or 512 computers
- Dual Interface – supports computers with PS/2 or USB keyboards and mice
- Multiplatform support – Windows 2000/XP/Vista, Linux, Mac, and Sun
- Auto PS/2 and USB interface detection
- Computer selection via front panel pushbuttons, hotkeys, and OSD
- With speaker and microphone support
- Superior video quality – up to 2048 x 1536; DDC2B
- Buzzer on/off via hotkey and OSD
- Firmware upgradeable
- ATEN USB ASIC inside
- Special design for easy stacking
- Rack-mountable in 19" system rack



master view™
CS1708A / CS1716A
8/16 Port PS/2-USB KVM™ Switch
 Rack-Mountable PS/2 & USB KVM Switch with USB Peripheral Port

- One USB-PS/2 console controls 8/16 computers
- Daisy-chain up to 31 additional units – control up to 256 (CS1708A) or 512 (CS1716A) computers from a single console
- Front accessible USB port allows each computer to access USB peripherals
- Dual Interface – supports computers and console with PS/2 or USB keyboards and mice
- Multiplatform support – Windows 2000/XP/Vista, Linux, Mac, and Sun
- Video DynaSync™ – stores the console monitor's EDID (Extended Display Identification Data) to optimize display resolution
- Supports multimedia USB keyboards for PC, Mac and Sun
- Auto PS/2 and USB interface detection
- USB or PS/2 keyboard and mouse emulation – computers boot even when the console focus is elsewhere
- Superior video quality – up to 2048 x 1536; DDC2B
- Computer selection via front panel pushbuttons, hotkeys, and OSD
- Auto-senses station's position on daisy-chained installations; no need for manual dip switch setting; front panel led indicates station's position
- Broadcast Mode – operations simultaneously performed on all selected computers, software installation and upgrading, system wide shutdown, etc.
- Buzzer on/off via hotkey and OSD
- Firmware upgradeable
- Rack-mountable in 19" system rack





master view™

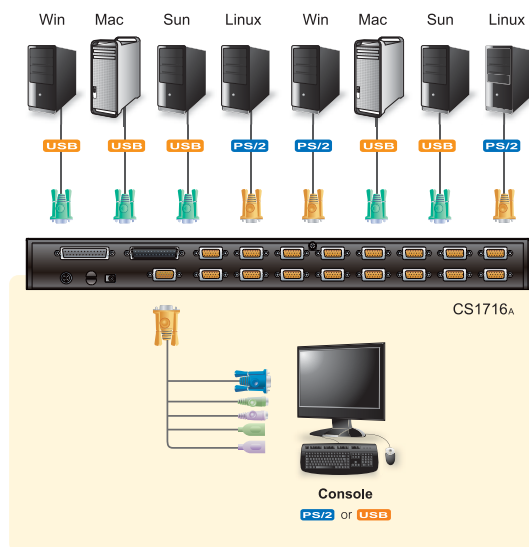
ACS1208A / ACS1216A 8/16-Port PS/2 KVM Switch

8/16 Ports in 1U Rack-Mountable PS/2 KVM Switch

- One PS/2 console controls 8/16 computers
- Daisy-chain up to 31 additional units – control up to 256/512 computers from a single console
- Firmware upgrades to all chained KVM switches simultaneously via daisy-chain cable
- Broadcast Mode – operations simultaneously performed on all selected computers, software installation and upgrading, system wide shutdown, etc.
- Auto-sensing of station's position on daisy-chained installations – no need for manual DIP switch setting – front panel LED indicates station's position
- Computer selection via hotkeys and OSD
- Superior video quality – up to 2048 x 1536; DDC2B
- Rack-mountable in 19" system rack



Setup (CS1716A)



Accessories



1. USB KVM Cables: 1.8 m x 1 (CS1708A /CS1716A)
2. PS/2 KVM Cables: 1.8 m x 1 (CS1708A /CS1716A, ACS1208A /ACS1216A)
3. Firmware Upgrade Cable: 1.8 m x 1 (CS1308/CS1316, CS1754/CS1758, CS1708A /CS1716A, ACS1208A/ACS1216A)
4. Rack Mount Kit x 1 (CS1308/CS1316, CS1754/CS1758, CS1708A /CS1716A, ACS1208A/ACS1216A)
5. Power Adapters: DC5V x 1 (CS1754/CS1758); DC5.3V x 1 (CS1308/CS1316, CS1708A /CS1716A) ; DC9V x 1 (ACS1208A/ACS1216A)
6. Console Cable x 1 (CS1308/CS1316, CS1708A /CS1716A)
7. Grounding Wire x 1 (CS1308/CS1316, CS1708A /CS1716A)
8. Foot Pad Set (4pcs.) x 1 (CS1308/CS1316, CS1708A /CS1716A)

Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
PS/2 KVM Cables	2L-5301P (1.2 m); 2L-5302P (1.8 m); 2L-5303P (3 m); 2L-5304P (4 m); 2L-5305P (5 m)	P81-O	CS1754/CS1758
	2L-5201P (1.2 m); 2L-5202P/2L-5702P (1.8 m); 2L-5203P (3 m); 2L-5206P (6 m); 2L-5702P (1.8 m)	P80-B, P80-C	CS1308/CS1316, CS1708A/CS1716A, ACS1208A/ACS1216A
USB KVM Cables	2L-5301U (1.2 m); 2L-5302U (1.8 m); 2L-5303U (3 m); 2L-5304U (4 m); 2L-5305U (5 m)	P81-N	CS1754/CS1758
	2L-5201U (1.2 m); 2L-5202U (1.8 m); 2L-5203U (3 m); 2L-5205U (5 m)	P81-P	CS1308/CS1316, CS1708A/CS1716A
Daisy-chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m)	P81-K	CS1708A/CS1716A, ACS1208A/ACS1216A
Cables & Converters for USB interface support	PC compatible: 2L-5202UP (1.8 m); 2L-5203UP (3 m); 2L-5206UP (6 m)	P80-E	ACS1208A/ACS1216A
	Window/Mac compatible: UC100KMA	P20	ACS1208A/ACS1216A
	Sun (USB) compatible: CV131A; Sun (Legacy) compatible: CV130A	P21	ACS1208A/ACS1216A

Business

Rack KVM Switches



Hot Selling



master view™
CS88A
8-Port PS/2 KVM Switch

- One PS/2 console controls 8 computers
- Cascadable up to 3 levels – control up to 512 computers
- Two-level (Administrator/User) password authorization for enhanced security protection
- DDC2B emulation on every port
- Patented ASIC design for enhanced functionality and compatibility
- Computer selection via front panel pushbuttons, hotkeys, and OSD
- Keyboard and mouse emulation for error-free booting
- Supports Microsoft IntelliMouse, Logitech MouseMan, FirstMouse, IBM Scrollpoint Mouse
- OSD automatically adjusts to resolution changes
- Auto Scan function to monitor computer operation
- Superior video quality – up to 2048 x 1536; DDC2B
- Special design for easy stacking
- Rack-mountable in 19" (1U) system rack



Hot Selling



master view™
CS9134 / CS9138
4/8-Port PS/2 KVM Switch

- One PS/2 console controls 4/8 computers
- Cascadable up to 3 levels – control up to 64/512 computers
- Computer selection via front panel pushbuttons, hotkeys, and OSD
- Keyboard and mouse emulation for error-free booting
- Supports Microsoft IntelliMouse, Logitech MouseMan, FirstMouse, IBM Scrollpoint Mouse
- OSD automatically adjusts to resolution changes
- Auto Scan function to monitor computer operation
- Superior video quality – up to 1920 x 1440; DDC2B
- Special design for easy stacking
- Rack-mountable in 19" (1U) system rack





master view™

CS228 / CS428

Multi-console 8-Port PS/2 KVM Switch

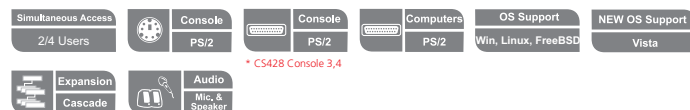
Economical Multi-User KVM Switch + Audio

- 2 or 4 PS/2 consoles control 8 computers
- Up to four users can operate up to 64 computers (via cascade to CS88A and CS9138*) at the same time
- Each console has its own access control
- Two-level (Administrator/User) password authorization for enhanced security protection
- Computer selection via OSD
- Supports Microsoft IntelliMouse, Logitech MouseMan, FirstMouse, IBM Scrollpoint Mouse
- OSD automatically adjusts to resolution changes
- Auto Scan function to monitor computer operation
- With speaker and microphone support
- Superior video quality – up to 1920 x 1440; DDC2B
- Special design for easy stacking
- Rack-mountable in 19" (1U) system rack

* CS88A and CS9138 do not support audio features of audio enabled KVM switches

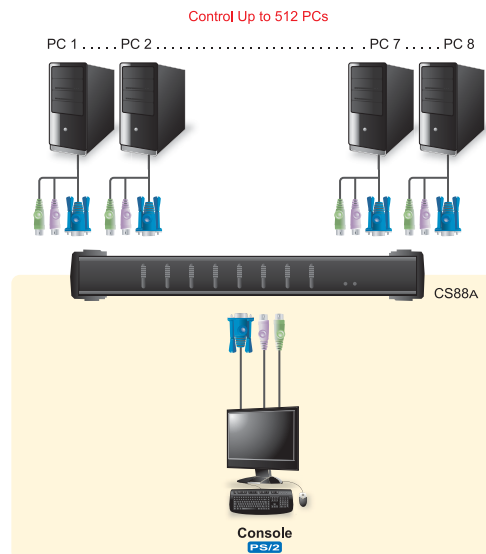


Rear

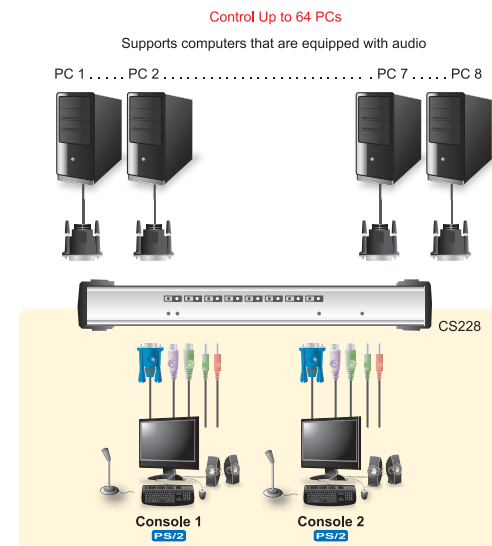


* CS428 Console 3,4

Setup (CS88A)



Setup (CS228)



Accessories



1. Rack Mount Kit x 1 (CS88A, CS9134/CS9138, CS228/CS428)
2. Power Adapter: DC9V x 1 (CS88A, CS9134/CS9138, CS228/CS428)
3. Console Cable for Console 3,4 x 2 (CS428)

Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
PS/2 KVM Cables	2L-5001P/C (1.2 m); 2L-5002P/C (1.8 m); 2L-5003P/C (3 m); 2L-5005P/C (5 m)	P80-A	CS88A, CS9134/CS9138
	2L-1701P (1.8 m); 2L-1703P (3 m); 2L-1705P (5 m); 2L-1710P (10 m)	P81-L	CS228/CS428
Cables & Converters for USB interface support	PC compatible: 2L-5502UP (1.8 m); 2L-5503UP (3 m); 2L-5506UP (6 m)	P80-G	CS88A, CS9134/CS9138
	Windows/Mac compatible: UC100KMA	P20	
	Sun (USB) compatible: CV131B; Sun (Legacy) compatible: CV130B	P21	
Daisy-Chain Cables	2L-1701S	P81-M	CS228/CS428

At a Glance

Rack KVM Switches

Model No.		CS1308	CS1316	CS1754	CS1758	CS1708A	CS1716A	ACS1208A	ACS1216A	CS88A	CS9134	CS9138	CS228	CS428
Console Connections		1	1	1	1	1	1	1	1	1	1	1	2	4
Ports		8	16	4	8	8	16	8	16	8	4	8	8	8
Expansion		64 (cascade)	256 (cascade)	64 (Cascade)	512 (Cascade)	256 (Daisy-chain)	512 (Daisy-chain)	256 (Daisy-chain)	512 (Daisy-chain)	512 (Cascade)	64 (Cascade)	512 (Cascade)	64 (Cascade)	64 (Cascade)
Interface	Console	PS/2 or USB, HDB-15 (SPHD-18)	PS/2 or USB, HDB-15 (SPHD-18)	USB, HDB-15	USB, HDB-15	PS/2 or USB, HDB-15 (SPHD-18)	PS/2 or USB, HDB-15 (SPHD-18)	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15, DB-25
	Computer	PS/2 or USB, HDB-15 (SPHD-15)	PS/2 or USB, HDB-15 (SPHD-15)	PS/2 or USB, HDB-15 (SPHD-15)	PS/2 or USB, HDB-15 (SPHD-15)	PS/2 or USB, HDB-15 (SPHD-15)	PS/2 or USB, HDB-15 (SPHD-15)	PS/2, HDB-15 (SPHD-15)	PS/2, HDB-15 (SPHD-15)	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15	PS/2, HDB-15 (DB-25)	PS/2, HDB-15 (DB-25)
Platform Support	PC	•	•	•	•	•	•	•	•	•	•	•	•	•
	Mac/Sun	•	•	•	•	•	•	•	•	•	•	•		
Port Selection		OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey	OSD, Hotkey	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD	OSD
Audio				•	•								•	•
Emulation		PS/2, USB	PS/2, USB	PS/2, USB	PS/2, USB	PS/2, USB	PS/2, USB	PS/2	PS/2	PS/2	PS/2	PS/2	PS/2	PS/2
Video Resolution		2048 x 1536	2048 x 1536	2048x1536	2048x1536	2048 x 1536	2048 x 1536	2048x1536	2048x1536	2048x1536	1920x1440	1920x1440	1920x1440	1920x1440
Video DynaSync™						•	•							
USB Peripheral						•	•							
Scan Interval (Sec.)		1-255	1-255	1-255	1-255	1-255	1-255	1-255	1-255	1-255	3,5,10,15,20,30,40,60	3,5,10,15,20,30,40,60	3,5,10,15,20,30,40,60	3,5,10,15,20,30,40,60
Power Consumption		DC5.3V, 5W	DC5.3V, 6.6W	DC5V, 2.75W	DC5V, 3.4W	DC5.3V, 5W	DC5.3V, 6.6W	DC9V, 7.5W	DC9V, 8W	DC9V, 1.08W	DC9V, 0.9W	DC9V, 1.08W	DC9V, 6.3W	DC9V, 7.2W
Environment	Operating Temp.	0-50°C												
	Storage Temp.	-20-60°C												
	Humidity	0-80% RH, Non-condensing												
Physical Properties	Housing	Metal												
	Weight	1.89 kg	2.10 kg	2.64 kg	2.72 kg	2.66kg	2.85kg	2.73 kg	2.96 kg	2.85 kg	2.55 kg	2.85 kg	2.70 kg	4.20 kg
	Dimensions (L x W x H)	43.30 x 16.00 x 4.40 cm		45.00 x 17.00 x 6.70 cm		43.30 x 16.00 x 4.40 cm					43.80 x 15.00 x 4.45 cm		45.00 x 17.60 x 6.70 cm	43.35 x 25.42 x 4.40 cm(19"/1U)

- Requires Converter / Cable
- Built in support

Business

LCD KVM Switches

Slideaway™

The Slideaway™ series of LCD KVM switches offer a space-saving, streamlined approach to KVM switch technology by integrating a LCD panel, full keyboard, and touchpad in a 1U single rail housing. The LCD display is built into the cover; the keyboard and touchpad are built into the base. Slide the KVM module out; flip the cover up; and you are ready to work. When you have finished, simply flip the cover down and slide the KVM module away.

- **All-in-One Design**

The Slideaway™ KVM Switches integrate a rack-mounted keyboard, video, mouse (KVM) console with an 8- or 16-port KVM switch in housing that is slightly less than 1U for easy installation and manipulation in 1U of rack space.

- **Second Console Port**

For further convenience and flexibility, the Slideaway™ products also support an extra external keyboard, monitor, and mouse console.

- **PS/2 and USB Compatible**

Slideaway™ LCD KVM switches support computers with a PS/2 or USB interface via optional custom KVM cables – adapter modules making them compatible with all the major operating platforms: PC, Mac and Sun.

- **Easy Rack Mounting**

All Slideaway™ LCD KVM switches are rack-mountable using the standard rack mount kit provided with each purchase. To simplify the procedure, we offer an optional “Easy Installation” Rack Mount Kit. This kit streamlines the rack-mounting process, making single person installation easy and convenient.

- **Fingerprint Identification**

(Models with Fingerprint, Identification Reader Only)

The fingerprint reader can be used as an alternate means of logging in to the switch. From 1 to 4 fingers can be scanned for each user and the administrator, with any one of the recorded fingerprints used to log in.

Not all products support these features. Please see the comparison chart on page 32 for details.

Business LCD KVM Switches



Slideaway™

CL5708 / CL5716

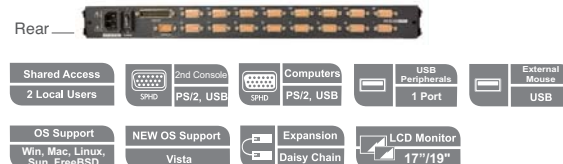
Slideaway™ 8/16-Port LCD KVM™ Switch

- Integrated KVM console with an LCD monitor in a Slideaway™ housing
- Available with or without Fingerprint Identification Reader
- LCD module rotates up to 115 degrees for a more comfortable viewing angle
- Dual Console Operation – simultaneous viewing and control
- Daisy-chain up to 31 additional units – control up to 256 or 512 computers from a single console
- Supports a PS/2 or USB external console
- 105-key keyboard
- Front panel USB port allows each computer to access USB peripherals
- Dual Interface – supports computers with PS/2 or USB keyboards and mice
- Auto PS/2 and USB interface detection
- Multiplatform support – Windows 2000/XP/Vista, Linux, Mac, and Sun
- Supports multimedia USB keyboards for PC, Mac and Sun
- USB / PS/2 keyboard and mouse emulation – computers boot even when the console focus is elsewhere
- Fingerprint identification*
- Superior video quality – up to 1280 x 1024 @ 60 Hz; DDC2B
- DDC emulation of the LCD monitor – VGA settings of every connected computer are automatically adjusted for optimal output to the LCD monitor
- Two level password security; only authorized users view and control computers; up to four users and an administrator supported with separate profiles for each
- Broadcast mode – operations are simultaneously performed on all selected computers
- Improved design – optional single person installation kit

*Models with Fingerprint, Identification Reader Only



Rear



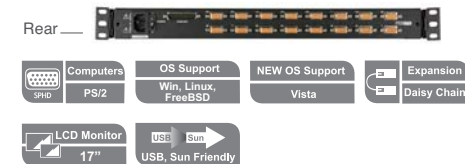
Slideaway™

CL1008 / CL1016

Slideaway™ 8/16-Port LCD KVM Switch

- Integrated KVM console with an LCD monitor in a Slideaway™ housing
- LCD module rotates up to 115 degrees for a more comfortable viewing angle
- Daisy-chain up to 15 additional units – control up to 256 computers
- No software required – convenient computer selection via hotkeys and mouse driven intuitive on screen display (OSD) menus
- Auto Scan feature for monitoring user-selected computers
- Broadcast Mode – operations simultaneously performed on all selected computers, software installation and upgrading, system wide shutdown, etc.
- Hot pluggable – add or remove computers without having to power down the switch
- Two level password security – only authorized users view and control the computers; up to four users plus an administrator with separate profiles for each
- DDC emulation of the LCD monitor – VGA settings of every connected computer are automatically adjusted for optimal output to the LCD monitor
- Upgradable firmware
- Keyboard Language support: English(US); English(UK); German; German(Swiss); French; Spanish; Traditional Chinese; Japanese; Korean; Swedish; Italian; Russian; Hungarian
- Improved design – optional single person installation kit

Rear





Slideaway™

CL1000

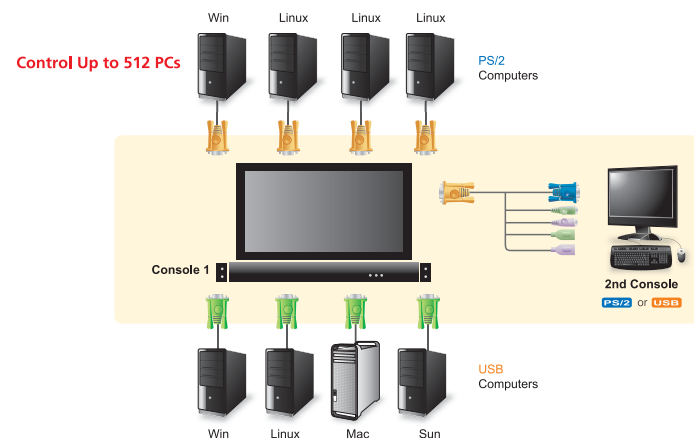
Slideaway™ LCD Console

- Integrated KVM console featuring an LCD monitor in a Slideaway™ housing
- LCD module rotates up to 115 degrees for a more comfortable viewing angle
- Compatible with most PS/2 KVM Switches
- Less than 1U high mountable rack
- Internal power built in
- Adjustable depth to fit within a rack
- High video resolution: Up to 1280 x 1024 @75Hz
Supports DDC, DDC2, DDC2B
- DDC emulation – VGA settings of every connected computer are automatically adjusted for optimal output to the LCD monitor
- Keyboard Language support: English(US); English(UK); German; German(Swiss); French; Spanish; Traditional Chinese; Japanese; Korean; Swedish; Italian; Russian; Hungarian
- Improved design – optional single person installation kit

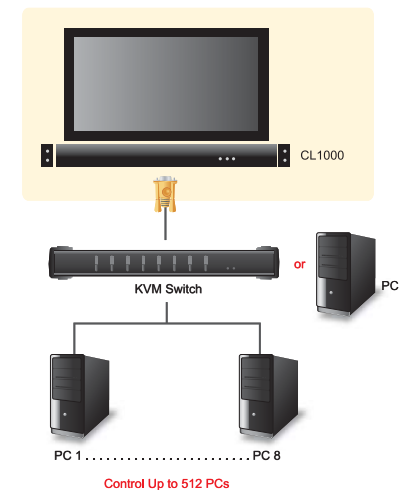
Rear —



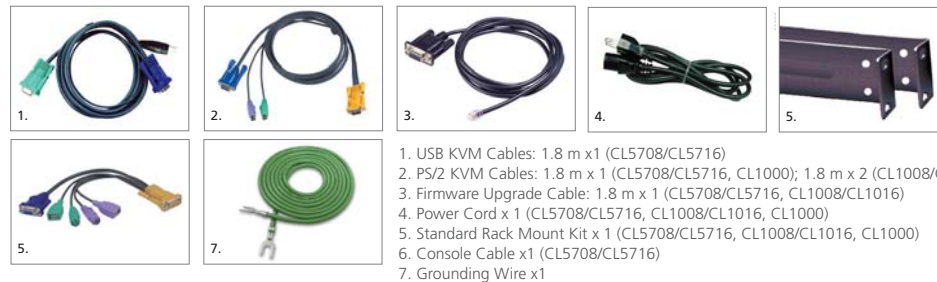
Setup (CL5708)



Setup (CL1000)



Accessories



Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
PS/2 KVM Cables	2L-5201P(1.2 m); 2L-5202P/2L-5702P(1.8 m); 2L-5203P(3 m); 2L-5206P(6 m)	P80-B, P80-C	CL5708/CL5716, CL1008/CL1016, CL1000
USB KVM Cables	2L-5201U(1.2 m); 2L-5202U(1.8 m); 2L-5203U(3 m); 2L-5205U(5 m)	P81-P	CL5708/CL5716
Daisy-chain Cables	2L-1700(0.6 m); 2L-1701(1.8 m); 2L-1703(3 m); 2L-1705(5m)	P81-K	CL5708/CL5716, CL1008/CL1016
Rack Mount Kit	Easy-Installation Rack Mount Kit – Short / Easy-Installation Rack Mount Kit – Long / Standard Rack Mount Kit – Long	P32	CL5708/CL5716, CL1008/CL1016, CL1000
Cables & Converters for USB interface support	PC compatible: 2L-5202UP(1.8 m); 2L-5203UP(3 m); 2L-5206UP(6 m)	P80-E	CL1008/CL1016
	Windows/Mac compatible: UC100KMA	P20	
	Sun (USB) compatible: CV131A; Sun (Legacy) compatible: CV130A	P21	

At a Glance

LCD KVM Switches

Model No.			CL5708	CL5716	CL1008	CL1016	CL1000
Ports			8	16	8	16	1
Expansion			256 (Daisy-chain)	512 (Daisy-chain)	128 (Daisy-chain)	256 (Daisy-chain)	
Computer	Connector		SPHD-15	SPHD-15	SPHD-15	SPHD-15	SPHD-15
	Platform		PS/2,USB	PS/2,USB	PS/2	PS/2	PS/2
Second Console			PS/2, USB, HDB-15 (SPHD-18)	PS/2, USB, HDB-15 (SPHD-18)			
Platform Support	PC		•	•	•	•	•
	Mac/Sun		•	•	•	•	•
LCD			17"/19"	17"/19"	17"	17"	17"
Port Selection			OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	
Emulation			PS/2, USB	PS/2, USB	PS/2	PS/2	PS/2
Video Resolution			1280x1024	1280x1024	1280x1024	1280x1024	1280x1024
USB Peripheral			•	•			
Scan Interval (Sec.)			1-255	1-255	1-255	1-255	
Power Consumption	17" LCD		120V, 27.5W/ 230V, 28W	120V, 27.5W/ 230V, 28W	120V, 23W/ 230V, 25W	120V, 26W/ 230V, 28W	120V, 21W/ 230V, 24W
	19" LCD		120V, 28.5W/ 230V, 29.1W	120V, 28.5W/ 230V, 29.1W		N/A	
Environment	Operating Temp.	17" LCD	0-40°C				
		19" LCD	0-50°C				N/A
	Storage Temp.		-20-60°C				
	Humidity		0-80% RH, Non-condensing				
Physical Properties	Housing		Metal + Plastic				
	Weight	17" LCD	13.77kg	13.97kg	13.33 kg	13.53 kg	12.53 kg
		19" LCD	14.0kg	14.2kg	N/A		
	Dimensions (D x W x H)	17" LCD	63.40x 48.00x 4.40 cm	63.40x 48.00x 4.40 cm	63.40 x 48.00 x 4.40 cm		53.40 x 48.00 x 4.40 cm
		19" LCD	68.50x 48.00x 4.40 cm	68.50x 48.00x 4.40 cm	N/A		N/A

• Requires Converter / Cable • Built in support

Optional Rack Mount Kits



Rack Mount Kit

Rack Mount Kit	Depth (cm)	
2X-010G (Long/Optional)	17"	68 - 105 68 - 100 (CL1000)
	19"	70 - 105
Short (Standard)	17"	42 - 82 42 - 72 (CL1000)
	19"	52 - 85

Easy Installation Rack Mount Kit

Easy Installation Rack Mount Kit	Depth (cm)	
2X-012G (Long/Optional)	68 - 105	
2X-011G (Short/Optional)	17"	52 - 70 42 - 70 (CL1000)
	19"	57 - 70

The following illustrations demonstrate just how easy it is to install your new Slideaway™ LCD KVM Switch with the Easy Installation Rack Mount Kit.



1. Secure the side rails to the rack.
2. Slide the Slideaway™ LCD KVM Switch onto the rails and secure it to the rack.
3. Now slide it out and you are ready to work.

Business

KVM on the NET

KVM on the NET™

Over-IP capability for legacy KVM switches

The CN8000 is an affordable appliance that's perfect for the small racks in the data center that do not have IP functionality built in. It allows operators to monitor and access their computers from remote locations using a standard Internet browser or Windows and Java based application programs.

The CN8000 expands on previous models by providing a dedicated RS-232 port for modem access, a PON port to attach a Power Over the NET™ device and USB 2.0 virtual media capability that lets you remotely load software for file transfers, application and OS patches, and diagnostic testing.

- **Configuration and Operation Ease**

An easy-to-navigate graphical user interface makes for convenient, intuitive configuration and operation. Web-based Windows and Java implementations allow the remote equipment to be controlled from industry-standard web browsers. Windows and Java AP client software – using the same, convenient, GUI – are also included to provide access where a browser environment is not desired.

- **Superior Video**

With its enhanced fps throughput for crisp responsive video display, the CN8000 offers resolutions of up to 1600 x 1200 @ 60Hz; vibrant 24-bit color depth for rich remote session display. The remote desktop can appear full-screen, or in a window. In full-screen mode the remote desktop display scales to the user's monitor display size.

- **Virtual Media**

CN8000 provides Virtual Media support. Use it to map CD-ROMs and other storage media to a remote branch server to conduct file transfers, application and OS patches, and CD-ROM diagnostics

Virtual Media, giving users the ability to transfer files for patches and upgrades from any location, speeding up the upgrade process and reducing travel costs

- **BIOS Level Control**

Unlike software-based remote control solutions, KVM on the NET™ supports BIOS-level control. System administrators can handle a multitude of tasks with ease – from installing and running GUI applications, to BIOS-level troubleshooting, routine monitoring, concurrent maintenance, system administration, rebooting and even pre-booting functions.

- **Low Bandwidth Optimization**

Bandwidth optimization via grayscale and video quality settings allow maximum data throughput in low bandwidth situations. PPP modem dial up support ensures reliable connectivity for out-of-band, and low bandwidth situations.

- **Mouse DynaSync™**

Mouse DynaSync™ is the last word in KVM mouse synchronization. With USB mice and DynaSync™, your local console mouse movement actually becomes the remote unit's mouse movement. Say goodbye to the annoying time-consuming hassle of constantly having to re-sync the mice. With Mouse DynaSync you get perfect mouse synchronization on connection, and it stays that way for the entire length of your session.

- **External Authentication Support**

RADIUS; LDAP; LDAPS; MS Active Directory

Business KVM on the NET™



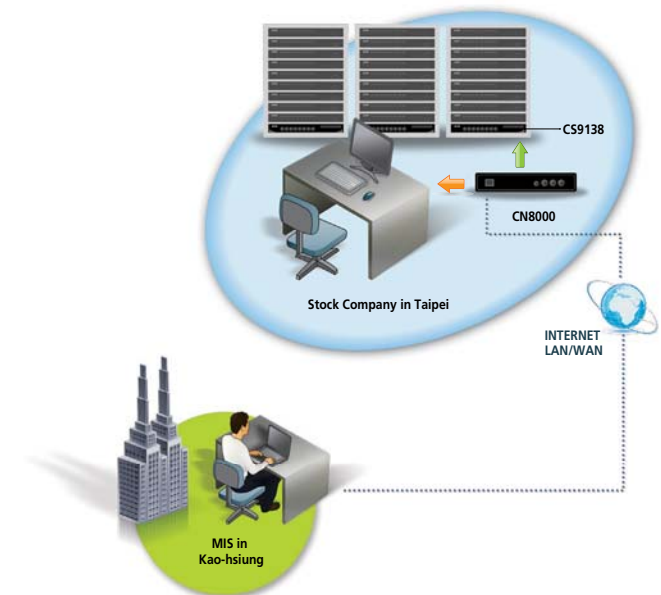
CN8000
KVM on the NET™

- Provides over-IP capability to KVM switches that do not have built-in over-IP functionality
- Virtual media via USB 2.0 data transmission **NEW!**
- Enhanced fps (frames per second) throughput for crisp responsive video display **NEW!**
- DynaSync™ – with USB mice local mouse movement becomes the remote mouse movement
- Superior video resolution – up to 1600 x 1200 @ 60Hz; vibrant 24-bit color depth for rich remote session display **NEW!**
- PPP mode (modem) dial up support for out-of-band, and low bandwidth operation **NEW!**
- Full-screen or sizable remote desktop window – in full-screen mode the remote desktop display scales to user's monitor display size **NEW!**
- PON (Power Over the NET™) support via Java
- Up to 64 user accounts – Up to 32 concurrent user logins for single-bus sharing
- Message board feature allows logged in users to communicate with each other, and allows a user to take exclusive control of the KVM functions
- External authentication support: RADIUS; LDAP; LDAPS; MS Active Directory
- Web-based Windows and Java implementations allow the server to be controlled from any browser
- Windows GUI and Java client software for non-browser access – Java works with practically all operating systems
- Supports TCP/IP, HTTP, HTTPS, UDP, DHCP, SSL, ARP, DNS, ICMP, CHAP, PPP, 10Base-T, 100Base-T
- Bandwidth optimization via grayscale and video quality setting
- On-screen keyboard
- Advanced security features include password protection and advanced encryption technologies
- Secure 128-bit SSL encryption
- Enable/disable browser operation
- Event logging
- Remote firmware upgrading



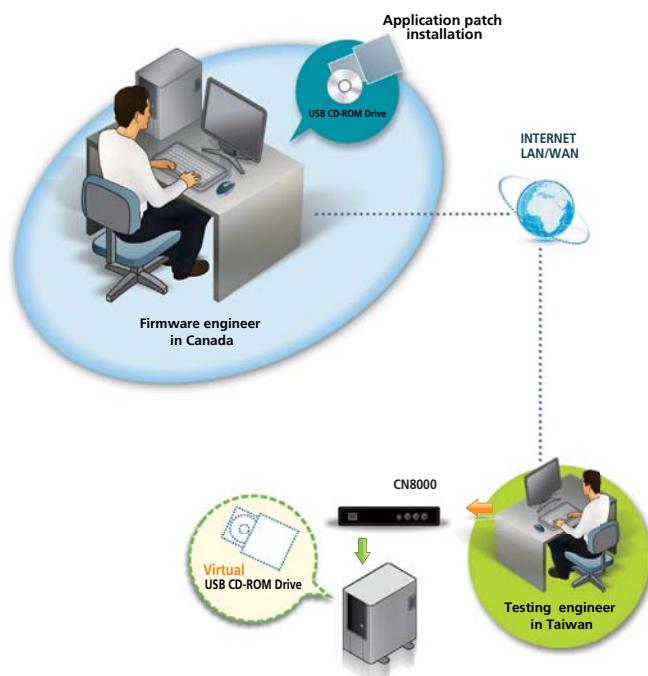
Shared Access		Console		Computers		OS Support		NEW OS Support	
1 Local User	1 Remote IP User	SPHD	PS/2, USB	SPHD	PS/2, USB	Win, Mac, Linux, Sun, FreeBSD		Vista	
Virtual Media		IP Ready		Remote UI					
		TCP/IP		Browser					

Application Scenarios

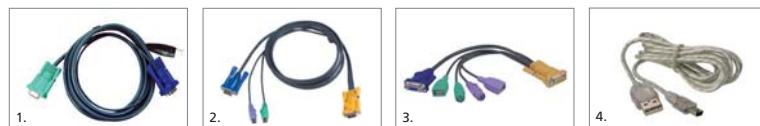


CN8000 Benefits

- **Reduce hardware costs**
less rack consoles; no need to have the same equipment in multiple buildings or floors
- **Increase management efficiency**
no need to enter the server room time and time again; more administrators working simultaneously
- **Speed up response time**
administrators can work remotely to troubleshoot and repair servers in other regions
- **Reduce personnel overheads**
no need to have technical staff in every location, even when servers are co-located



Accessories



1. USB KVM Cable: 1.2 m x 1
2. PS/2 KVM Cable: 1.2 m x 1
3. Console Cable: 27 cm x 1
4. USB 2.0 Virtual Media Cable x 1
5. Software CD x 1
6. Power Adapters: DC5.3V x 1
7. Mounting Kit x 1

Specifications

CN8000

Function		CN8000
Connectors	Console	1 x SPHD-18 (M)
	KVM (Computer)	1 x SPHD-15 (F)
	Virtual Media	1 x USB Mini Type B (F)
	PON	1 x DB-9 (M)
	Modem	1 x DB-9 (M)
	LAN	1 x RJ-45 (F)
	Power	1 x DC Jack
Switches	Reset	1 x Semi-recessed pushbutton
LEDs	Power	1 (Orange)
	Link	1 (Green)
	10/100 Mbps	1 (Orange/Green)
Emulation	Keyboard/Mouse	USB; PS/2
Video Resolution		1600 x 1200 @ 60 Hz; DDC2B
Power Consumption		DC5.3V; 6.3W
Environment	Operating Temp.	0–50°C
	Storage Temp.	-20–60°C
	Humidity	0–80% RH, Non-condensing
Physical Properties	Housing	Metal
	Weight	0.49 kg
	Dimensions (L x W x H)	20.00 x 8.15 x 2.50 cm

Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
USB KVM Cables	2L-5201U (1.2 m); 2L-5202U (1.8 m); 2L-5203U (3 m); 2L-5205U (5 m)	P81-P	CN8000
PS/2 KVM Cables	2L-5201P (1.2 m); 2L-5202P/2L-5702P (1.8 m); 2L-5203P (3 m); 2L-5206P (6 m)	P80-B, P80-C	CN8000

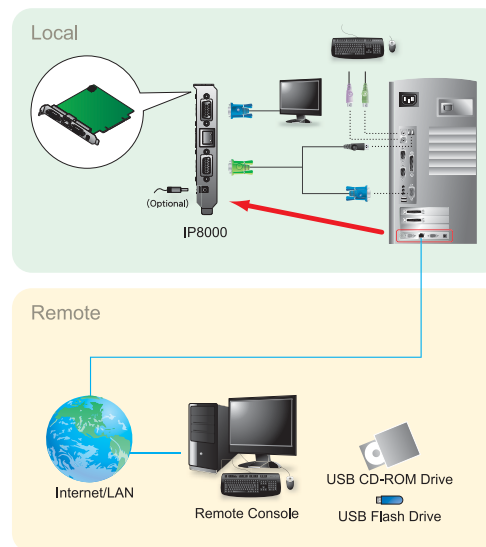


IP8000 Remote Management PCI Card

The Best Embedded KVM Over IP Solution

- Standard PCI-sized card provides over-IP access and control of a remote server from anywhere in the world
- Virtual media via USB 2.0 data transmission
- Remote power control and reset support
- Up to 64 user accounts – Up to 32 concurrent user logins for single-bus sharing
- Message board feature allows logged in users to communicate with each other, and allows a user to take exclusive control of the KVM functions
- External authentication support – RADIUS
- Web-based Windows and Java implementations allow the server to be controlled from any browser
- Windows GUI and Java client software for non-browser access – the Java client works with practically all operating systems
- Supports TCP/IP, HTTP, HTTPS, UDP, DHCP, SSL, ARP, DNS, ICMP, CHAP
- Supports 10Base-T, 100Base-T
- Superior video resolution– up to 1600 x 1200 @ 60Hz; 24-bit color depth for remote sessions
- Bandwidth optimization via grayscale and video quality setting
- Advanced security features include password protection and advanced encryption technologies
- Secure 128-bit SSL encryption
- Enable/disable browser operation
- Three level authentication– Multi- Administrators, Users, Viewers
- Event logging
- Remote firmware upgrading
- Host-side OS support– Windows 2000/2003/XP/NT/Vista; Redhat 7.1 and above; FreeBSD, Novell

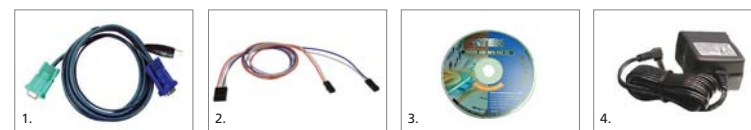
Setup (IP8000)



IP8000

Function			IP8000
Connectors	Computer	Video/ Keyboard/Mouse	1x SPHD-15 (F)
	Video out		1x HDB-15 (F)
	LAN Port		1 x RJ-45 (F)
	Power		1 x DC Jack
	Link		1(Green)
LEDs	10/100 Mbps		1 (Orange/Green)
Emulation	Keyboard/Mouse		USB
Video Resolution			1600x1200@60Hz; DDC2B
Power Consumption			DC5V, 6W
Environment	Operating Temp.		0~50°C
	Storage Temp.		-20~60°C
	Humidity		0~80% RH, Non-condensing
Physical Properties	Weight		0.10 kg
	Dimensions (L x W x H)		15.35 x 12.00 x 2.15 cm

Accessories



1. USB KVM Cable: 1.8 m x 1
2. Feature Cable x 1
3. Software CD x 1
4. Power Adapters: DC5V x 1

Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Product
USB KVM Cables	2L-5201U (1.2 m); 2L-5202U (1.8 m); 2L-5203U (3 m); 2L-5205U (5 m)	P81-P	IP8000



Business

KVM Extenders

ProXime™

Bringing Control Closer to You

ProXime™ KVM Extenders allow your console to be located up to 300 meters away from your computer or installation. ProXime™ frees you from hardware-heavy rooms or your installation from harsh environments, yet gives you a level of control as if you were right there in front of your installation. Ideal for data centers, libraries, constructions sites, factory production lines, and SOHO environments. With ATEN's ProXime KVM extenders, you are always in the right proximity.

- **Dual Console Control**

Control your system from the local and remote PS/2 or USB KVM console

- **Cat 5e Connectivity**

Allows transmission distance up to 300 m

- **Auto Signal Compensation**

Adjusts video strength to compensate for distance

- **Extra PC Port**

Additional PC connection on remote unit

- **Audio Enabled**

Stereo speakers and microphone supported

- **USB Peripheral Port**

Additional USB port for mass storage

- **RS-232 Serial Connectivity**

Connect touchscreens or barcode scanners

Not all products support these features. Please comparison chart on page 42 for details.

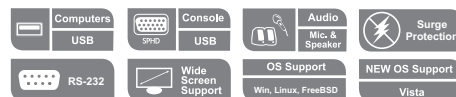
Business KVM Extenders



Scheduled for Q2 Release

ProXime
CE790
Digital KVM Extender + Audio
With RS-232 Serial functionality

- Digital Transmission technology for high quality video and audio
- Dual console operation – control your system from both the local and remote USB consoles
- OSD on both the transmitter and receiver modules
- RS-232 serial ports – allows you to connect serial devices such as touchscreens and barcode scanners
- No software required – an HTTP server is embedded in both units
- Superior video quality – up to 1920 x 1080
- Supports widescreen formats
- Supports Lossless Video Streaming
- Supports MDI/MDIX to detect and configure cable connection
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Firmware upgradable
- Audio enabled
- Hot pluggable
- Rack mountable



NEW

CE750
USB KVM Extender + Audio
With RS-232 Serial functionality

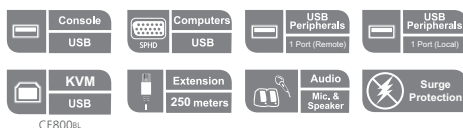
- Local and Remote Units connect at distances up to 150 m using Cat 5e cable.
- Dual console operation – control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- Built-in ASIC for greater reliability and compatibility
- Auto Signal Compensation (ASC)
- RS-232 serial ports – allows you to connect to a serial terminal for configuration (Local Unit), or serial devices such as touchscreens and barcode scanners (Remote Unit)
- Supports stereo speakers and stereo microphone
- USB overcurrent detection and prevention
- Pushbutton selection of the active console
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Adjustable gain control – manually adjusts signal strength to compensate for distance
- Superior video quality – up to 1920x1200@60Hz at 30m, 1600x1200@60Hz at 150m, 1280x1024@60Hz at 200m
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Hot pluggable
- Rack mountable





CE800B USB KVM Extender + Audio With Virtual Storage Support

- Users Cat 5e cable to connect the Local and Remote Units (up to 250 m apart)
- Dual console operation – control your system from both the local and remote consoles
- Pushbutton selection of the active console
- Built-in USB port on both units supports external USB Mass Storage compliant flash drives for easy file sharing
- Special security feature requires login when mounting an external USB storage device on the remote unit
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Superior video quality – up to 1920x1200@60Hz at 30m, 1600x1200@60Hz at 150m, 1024x768@60Hz at 250m
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Adjustable gain control – manually adjusts signal strength to compensate for distance
- Supports stereo speakers and stereo microphone
- Supports Microsoft Intellimouse and the scrolling wheel on most mice
- Firmware upgradable
- Built-in ASIC for greater reliability and compatibility

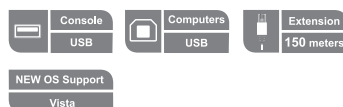


CE800B

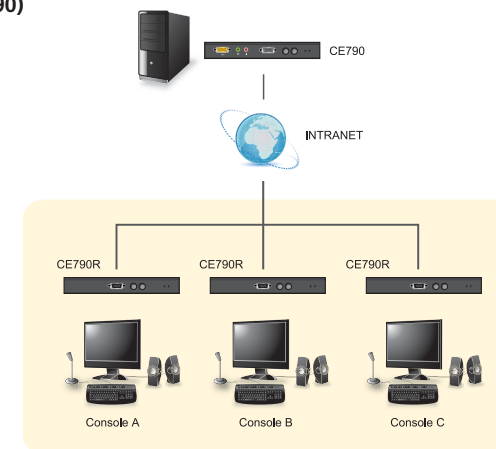


CE700 USB KVM Extender

- Uses Cat 5e cable to connect the local and remote units (up to 150 m apart)
- Dual Console Operation – control your system from both the local and remote consoles
- Pushbutton selection of the active console
- Automatic gain control – automatically adjusts signal strength to compensate for distance
- USB overcurrent detection and prevention
- Superior video quality – up to 1280 x 1024
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B



Setup (CE790)



Accessories



1. USB KVM Cables: 1.8 m x 1 (CE790, CE750, CE800B)
2. USB KVM Cables: 1.2 m x 1 (CE700)
3. Power Adapter: DC5.3V x 2 (CE790, CE750); DC5V x 2 (CE800B); AC9V x 2 (CE700)
4. Firmware Upgrade Cable: 1.8 m x 1 (CE800B)
5. Rack Mount Kit x 1 (CE790, CE750, CE800B)
6. Grounding Wire x 2 (CE790, CE750, CE800B)
7. USB Cable x 1 (CE800B)

Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
USB KVM Cables	2L-5301U (1.2 m); 2L-5302U (1.8 m); 2L-5303U (3 m); 2L-5304U (4 m); 2L-5305U (5 m)	P81-N	CE790, CE750, CE800B
	2L-5001U (1.2 m); 2L-5002U (1.8 m); 2L-5003U (3 m); 2L-5005U (5 m)	P81-Q	CE700

Business KVM Extenders



CE252 KVM Extender

Extra PC Connection for Remote User

- Uses Cat 5e cable to connect the local and remote units (up to 300 m apart)
- Dual Console Operation – control your system from both the local and remote consoles
- Additional PC connection allowed for the remote unit
- Pushbutton selection of the active console
- Adjustable gain control – manually adjusts signal strength to compensate for distance
- Automatic gain control – automatically adjusts signal strength to compensate for distance
- Superior video quality – up to 1600 x 1200
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Local unit takes its power from the computer – external power is only required when the power from the local computer/computers in the KVM installation is insufficient
- Rack Mountable



CE250A PS/2 KVM Extender

High Surge Protection KVM Extender

- Uses Cat 5e cable to connect the Local and Remote Units (up to 150 m apart)
- Dual console operation - control your system from both the local and remote consoles
- Pushbutton selection of the active console
- Automatic gain control automatically adjusts signal strength to compensate for distance
- Built-in ASIC for greater reliability and compatibility
- Superior video quality – up to 1280 x 1024
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Supports Microsoft IntelliMouse and the scrolling wheel on most mice
- Built-in 8KV/15KV ESD protection and 2KV surge protection
- Local unit takes its power from the computer – external power is only required when the power from the local computer/computers in the KVM installation is insufficient
- Rack Mountable



CE220 PS/2 KVM Extender

- Uses Cat 5e cable to connect the Local and Remote Units (up to 150 m apart)
- Dual console operation – control your system from both the local and remote consoles
- Pushbutton selection of the active console
- Superior video quality – up to 1024 x 768
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Supports Microsoft IntelliMouse and the scrolling wheel on most mice



CE120 KVM Extender

KVM Extender via Coaxial VGA Cable

- One unit handles keyboard, monitor and mouse extension
- Transmission distance of up to 80 m
- Suitable for PS/2 computers
- Plug and Play operation – no tools required – just plug in the cables
- Supports SVGA, VGA, and multisync monitors





CE300 Audio KVM Extender

- Uses Cat 5e cable to connect the local and remote units (up to 100 m apart)
- Dual Console Operation – control your system from both the local and remote consoles
- Supports stereo speakers and stereo microphone
- Pushbutton selection of the active console
- Automatic gain control – automatically adjusts signal strength to compensate for distance
- Built-in ASIC for greater reliability and compatibility
- Superior video quality – up to 1280 x 1024
- Supports VGA, SVGA, and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Rack Mountable
- Firmware upgradable



VE550 VGA Over Cat 5 Repeater

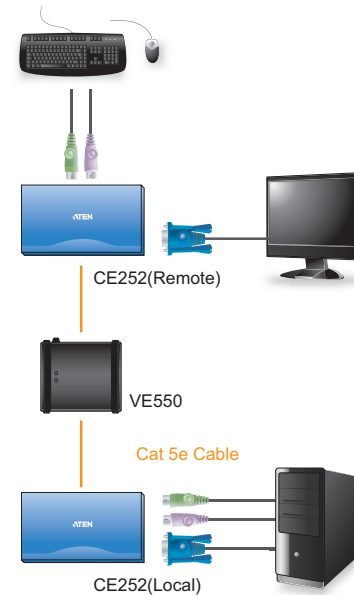
Double the Range of your Video Transmissions

- VGA signal extension over Cat 5e Cable
- Extends the video transmission range up to twice the original distance
- Expandable Range – using an additional repeater to increase distance transmission
- Adjustable Gain Control – manually adjusts signal strength to compensate for distance
- Built-in 8KV/15 KV ESD protection and 2KV surge protection
- LED display for easy status monitoring
- Compact Size – Din Rail and Wall mountable
- Compatible with ATEN KVM Extenders and Video Extenders



For specification information , please refer to p.67.

Setup (VE550+CE252)



Accessories



1. PS/2 KVM Cable: 1.8 m x 1 (CE300)
2. PS/2 KVM Cables: 1.8 m x 1 (CE250A); 1.8 m x 2 (CE252)
3. PS/2 KVM Cables: 1.2 m x 1 (CE220)
4. Power Adapters: DC5.3V x 2 (CE300); DC5.3V x 1 (CE252, VE550); DC5V x 1 (CE250A); AC9V x 1 (CE120); AC9V x 2 (CE220)
5. Firmware Upgrade Cable: 1.8 m x 1 (CE300)
6. Rack Mount Kit x 1 (CE300, CE252, CE250A)
7. Rack Mount Kit x 1 (CE250A)
8. Rack Mount Kit x 1 (VE550)
9. Grounding Wire x 2 (CE252, CE250A); x1 (VE550)

Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
PS/2 KVM Cables	2L-5301P (1.2 m); 2L-5302P (1.8 m); 2L-5303P (3 m); 2L-5304P (4 m); 2L-5305P (5 m)	P81-O	CE300
	2L-5201P (1.2 m); 2L-5202P/2L-5702P (1.8 m); 2L-5203P (3 m); 2L-5206P(6 m)	P80-B, P80-C	CE252, CE250A, CE220
	2L-5001P/C (1.2 m); 2L-5002P/C (1.8 m); 2L-5003P/C (3 m); 2L-5005P/C (5 m)	P80-A	CE220
PS/2 KVM Extension Cables	2L-1010P (10 m); 2L-1020P (20 m); 2L-1030P (30 m); 2L-1040P (40 m)	P80-A	CE120
VGA Over Cat 5 Repeater	VE550	P41	CE300, CE252, CE250A, CE220

At a Glance

KVM Extenders

Model No.		CE790	CE750	CE800 [®]	CE700	CE252	CE250A	CE220	CE120	CE300
Cable Type		Cat 5e	Cat 5e	Cat 5e	Cat 5e	Cat 5e	Cat 5e	Cat 5e	KVM	Cat 5e
Distance		No limitation	150m	250 m	150 m	300 m	150 m	150 m	80 m	100 m
Interface	Console	USB	USB	USB	USB	PS/2	PS/2	PS/2	PS/2	PS/2
	Server	USB	USB	USB	USB	PS/2	PS/2	PS/2	PS/2	PS/2
Dual Console		•	•	•	•	•	•	•		•
Video Resolution		1920 x 1080	1920 x 1200 @ 60 Hz at 30m, 1600 x 1200@60 Hz at 150m, 1280 x 1024 @ 60 Hz at 200m	1920 x 1200 @ 60 Hz at 30m, 1600 x 1200@60 Hz at 150m, 1024 x 768 @ 60 Hz at 250m	1280x1024	1600x1200	1280x1024	1024x768	1024x768	1280x1024
Audio	Speaker	•	•	•						•
	Mic.	•	•	•						•
Automatic Gain Control			•	•	•	•	•			•
Adjustable Gain Control			•	•		•				
USB Port for File Sharing				•*						
Additional PC Port						• (Remote Unit)				
Rack Mountable		•	•	•		•	•			•
Non-Powered						• (Local Unit) **	• (Local Unit) **			
ESD/Surge Protection		•	•	•		•	•			
Security Login*				•						
IP Enabled		•								
Wide screen support		•								
Auto MDIX support		•								
Power Consumption (L/R)		TBA	DC 5.3V, 3.0W (L) DC 5.3V, 4.2W (R)	DC5V, 6W	AC9V, 6.8W/AC9V, 7.4W	DC5.3V, 2.6W	DC5V, 1.25W	AC9V, 2.7W (Max.)	AC9V, 1.6W (Max.)	DC5.3V, 2.5W (Max.)
Environment	Operating Temp.	0–50°C								
	Storage Temp.	-20–60°C								
	Humidity	0–80% RH, Non-condensing								
Physical Properties	Housing	Metal	Metal	Metal	Plastic	Metal	Metal	Plastic	Metal	Metal
	Weight (L/R)	0.50kg(T) / 0.48 kg(R)	0.49 kg	0.50 kg / 0.49 kg	0.30 kg / 0.22 kg	0.35 kg	0.33 kg / 0.32 kg	0.30 kg / 0.22 kg	0.41 kg	0.38 kg / 0.37 kg
	Dimensions (L x W x H) (L /R)	20.00 x 8.64 x 2.70 cm	20.00 x 8.00 x 2.50 cm	20.00 x 8.00 x 2.50 cm	13.00 x 10.00 x 3.50 cm	13.90 x 8.80 x 3.80 cm	12.50 x 8.15 x 2.50 cm	13.00 x 10.00 x 3.50 cm / 10.00 x 8.50 x 3.50 cm	13.70 x 10.30 x 3.80 cm	13.90 x 8.80 x 3.80 cm

*Special security login for uploading USB files

** Note: The Local unit can get its power from the computer – external power is only required when the power from the local computer/computers in the KVM installation is insufficient.