

# 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™

Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports

*Not all products support these features. Please see the specifications on page 6 for details.*

## At a Glance

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
Interface	Keyboard, Mouse	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
	Video	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA	VGA
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)
Platform Support	PC, Mac, Sun	PC, Mac, Sun	PC, Mac, Sun	PC, Mac, Sun	PC, Mac, Sun	PC, Mac, Sun	PC	PC	PC	PC	PC	PC	PC
Audio			•	•								•	•
USB Peripheral Port					•	•							
Video DynaSync™					•	•							

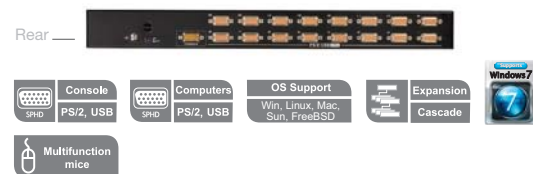
# Business

## 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, 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 – computers boot even when the console focus is elsewhere
- Computer selection via front panel pushbuttons, hotkeys and Multilingual OSD
- Superior video quality – up to 2048 x 1536; DDC2B
- 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 upgradable
- Rack-mountable in 19" system rack



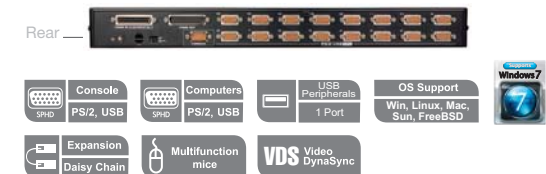
**master view™**  
**CS1754 / CS1758**  
**4/8-Port PS/2-USB KVM Switch**  
 Rack-Mountable PS/2 & USB KVM Switch + Audio

- 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, Linux, 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
- 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 upgradable
- ATEN USB ASIC inside
- Special design for easy stacking
- Firmware upgradable
- Rack-mountable in 19" system rack



**master view™**  
**CS1708A / CS1716A**  
**8/16 Port PS/2-USB KVMP 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, Linux, Mac, and Sun
- Video DynaSync™ -Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- 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
- Computer selection via front panel pushbuttons, hotkeys, and OSD
- Superior video quality – up to 2048 x 1536; DDC2B
- 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 upgradable
- Rack-mountable in 19" system rack



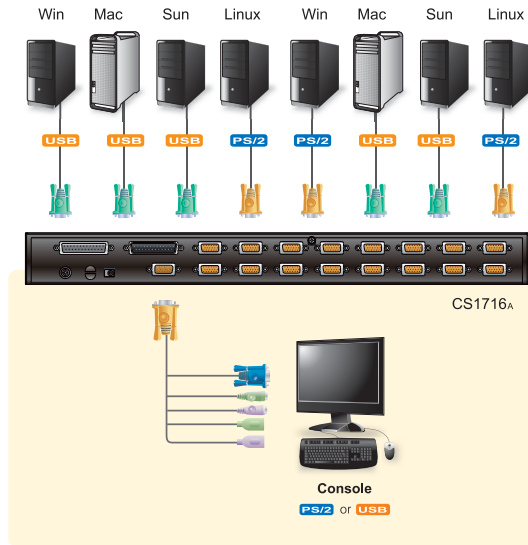


**master view™**  
**ACS1208A / ACS1216A**  
**8/16-Port PS/2 KVM Switch**

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
- Firmware upgradable
- Rack-mountable in 19" system rack

**Setup (CS1716A)**



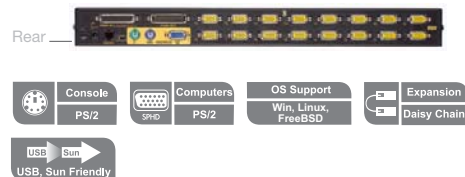
**Accessories**



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-5305P (5 m)	P54-K	CS1754/CS1758
	2L-5201P (1.2 m); 2L-5202P/2L-5702P (1.8 m); 2L-5203P (3 m); 2L-5206P (6 m)	P53-B, P53-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)	P54-J	CS1754/CS1758
	2L-5201U (1.2 m); 2L-5202U (1.8 m); 2L-5203U (3 m); 2L-5205U (5 m)	P54-L	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)	P54-S	CS1708A/CS1716A, ACS1208A/ACS1216A
Cables & Converters for USB interface support	PC compatible: 2L-5202UP (1.8 m); 2L-5203UP (3 m); 2L-5205UP (5m); 2L-5206UP (6 m)	P53-E	ACS1208A/ACS1216A
	Window/Mac compatible: UC100KMA	P39	ACS1208A/ACS1216A
	Sun (USB) compatible: CV131A; Sun (Legacy) compatible: CV130A	P39, P40	ACS1208A/ACS1216A



# Business

## Rack KVM Switches



**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



	<b>Console</b>		<b>Computers</b>		<b>OS Support</b>		<b>Expansion</b>		
	PS/2		PS/2		Win, Linux, FreeBSD		Cascade		USB, Sun Friendly



**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



	<b>Console</b>		<b>Computers</b>		<b>OS Support</b>		<b>Expansion</b>		
	PS/2		PS/2		Win, Linux, FreeBSD		Cascade		USB, Sun Friendly





**master view™**  
**CS228 / CS428**  
**Multi-console 8-Port PS/2 KVM Switch**  
 Economical Multi-User KVM Switch + Audio

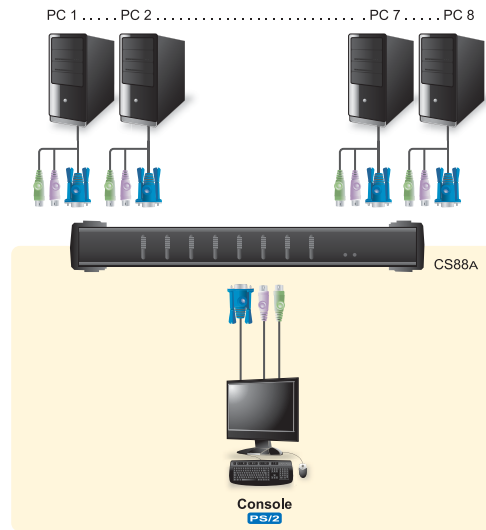
- 2 or 4 PS/2 consoles control 8 computers
- Up to four users can operate up to 64 computers (via cascade to CS88A and CS9138\*) at the same time
- Each console has its own access control
- Two-level (Administrator/User) password authorization for enhanced security protection
- Computer selection via 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

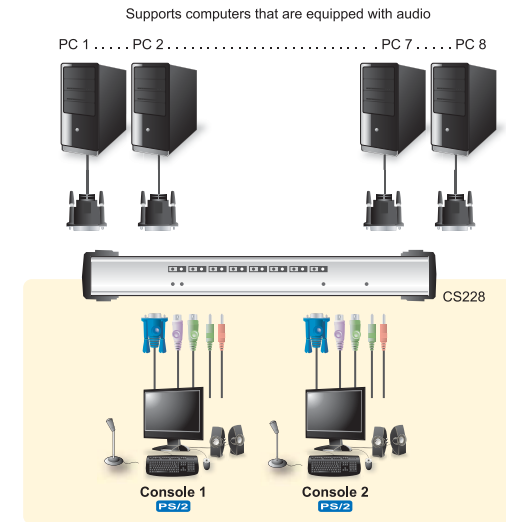


Simultaneous Access 2/4 Users	Console PS/2	Console PS/2	Computers PS/2	OS Support Win, Linux, FreeBSD
Expansion Cascade	Audio Mic & Speaker	* CS428 Console 3,4		

**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)	P53-A	CS88A, CS9134/CS9138
	2L-1701P (1.8 m); 2L-1703P (3 m); 2L-1705P (5 m); 2L-1710P (10 m)	P53-H	CS228/CS428
Cables & Converters for USB interface support	PC compatible: 2L-5502UP (1.8 m); 2L-5503UP (3 m); 2L-5506UP (6 m)	P53-G	CS88A, CS9134/CS9138
	Windows/Mac compatible: UC100KMA	P39	
	Sun (USB) compatible: CV131B; Sun (Legacy) compatible: CV130B	P39, P40	
Expansion Cables	2L-1701S	P53-I	CS228/CS428

# Specifications

## 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)	PS/2 or USB, HDB-15 (SPHD)	USB, HDB-15	USB, HDB-15	PS/2 or USB, HDB-15 (SPHD)	PS/2 or USB, HDB-15 (SPHD)	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)	PS/2 or USB, HDB-15 (SPHD)	PS/2 or USB, HDB-15 (SPHD)	PS/2 or USB, HDB-15 (SPHD)	PS/2 or USB, HDB-15 (SPHD)	PS/2 or USB, HDB-15 (SPHD)	PS/2, HDB-15 (SPHD)	PS/2, HDB-15 (SPHD)	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 KVM On the NET™

## KVM On the NET™

### CS1708i / CS1716i

#### All-in-One Over-IP Server Management Solution

The CS1708i and CS1716i KVM switches are IP-based KVM control units that allow both local and remote operators to monitor and access multiple computers from a single console. Since the CS1708i / CS1716i uses TCP/IP for its communications protocol, it can be accessed from any computer on the Net, whether that computer is located down the hall, down the street, or half-way around the world.

### CN8000

#### Provides Over-IP Capability for KVM Switches

The CN8000 is an affordable appliance that's perfect for the small racks in the data center that do not have built-in IP functionality. An external Over-IP solution that adds a remote user to any KVM installation, it allows operators to monitor and access their computers from any location using a standard Internet browser or Windows and Java based application programs.

- **Configuration and Operation Ease**

An easy-to-navigate graphical user interface makes for convenient, intuitive configuration and operation. A web-based implementation allows 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.

- **Remote desktop scaling**

The remote desktop can appear full-screen, or in a window.

- **Multi-Keyboard Language Support; On-Screen Keyboard**

KVM on the Net devices support multiple keyboard language input – including English, French, German, Italian, Spanish, Japanese, Korean, and Traditional Chinese. There is no need to have a separate keyboard for each language – you can input key data in any of these languages with the convenient on-screen keyboard.

- **External Authentication Support**

In addition to its own security protection, it allows you to set up log in authentication and authorization management from a external sources such as RADIUS, LDAP, LDAPS, and MS Active Directory.

- **Serial Console Management**

Serial terminal access, access via a built-in serial viewer, or via third party software (such as PuTTY) for Telnet and SSH sessions.

- **Mouse Dyna Sync™**

Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings.

- **Virtual Media**

Virtual Media support lets you map DVD/CD-ROMs and other storage media to a remote server. This function allows you to conduct file transfers, application and OS patches, and diagnostics remotely.

- **Smart Card Reader**

The smart card reader function allows a reader plugged into a local client computer's USB port to be redirected, and appear as if it were plugged into the remote server.

- **Message Board**

To alleviate the problem of access conflicts arising from multiple logins, the Message Board functions like an Internet chat program, allowing users who are logged in to instantly communicate with each other

- **Panel Array Mode**

Panel array mode permits simultaneous monitoring of the video output of the installations' servers. Operators can monitor the screen display of up to 16 servers per switch for real-time server monitoring

Not all products support these features. Please see the specifications on page 10 for details.



## At a Glance

Model No.		CN8000	CS1708i/CS1716i	IP8000
Type		KVM IP Enabler	KVM Switch	PCI Card
Computer Connections	Direct	1	8/16	1
	Max.	-	128/256	1
Bus Sessions	Local	1	1	1
	Remote			
Local Console		PS/2, USB	PS/2, USB	USB

# 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
- PON support via Java
- Up to 64 user accounts- up to 32 concurrent user logins for single-bus sharing
- Message board allows logged in users to communicate with each other, and allows a user to take exclusive control of the KVM functions
- Critical system events sent by email and SNMP trap; and Syslog support **NEW!**
- Serial console management – serial terminal access. Access the CN8000 via a built-in serial viewer, or via third party software (such as PuTTY) for Telnet and SSH sessions **NEW!**
- PPP mode (modem) dial-in/dial back/dial out support for out-of-band, and low bandwidth operation **NEW!**
- Local Console, browser-based and AP GUIs offer a unified Multilanguage interface to minimize user training time and increase productivity **NEW!**
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without pre-installed Java software package required **NEW!**
- Integration with ALTUSEN CC2000 Management software DDNS (Dynamic Domain Name System) **NEW!**
- External authentication support: RADIUS;LDAP; LDAPS; MS Active Directory
- Smart Card /CAC Reader Support **NEW!**
- Flexible encryption design allows users to choose any combination of 56-bit DES, 168-bit 3DES 256-bit
- AES, 128-bit RC4, or Random for independent KB/Mouse, video, and virtual media data encryption **NEW!**
- Private CA **NEW!**
- Exit Macros support **NEW!**
- Mouse DynaSync™



**NEW**

### CS1708i/CS1716i 8/16-Port PS/2-USB KVM on the NET™ (With 1 Local/Remote User Access)

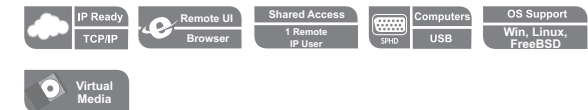
- 8/16-Port remote access KVM switch-monitor and control up to 8/16 computers from a single KVM
- Convenient computer selection via front panel pushbuttons, hotkeys, multilingual on-screen display (OSD) menus /GUI\*
- Secure keyboard/mouse/video transmission via RC4 128bit encryption 128bit SSL browser access
- Up to 32 concurrent logins
- Message board allows logged in users to communicate with each other, and allows a user to take exclusive control of the KVM functions
- Adjustable video quality for flexible adaptation to diverse network environments
- Panel array mode enables user to monitor multiple servers from single screen at the same time
- External (Remote) authentication support: RADIUS, LDAP, LDAPS, MS Active Directory
- Superior video quality — up to 2048 x 1536; DDC2B for the local console; up to 1600 x 1200 @ 60Hz / 24 bit color depth for remote sessions
- Mouse DynaSync™ — Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings
- Windows client and Java client software support; Java client works with all operating systems
- Daisy chain up to 15 additional units – control up to 128 (CS1708i) or 256 (CS1716i) computers from a single console
- Front access USB port\*\* allows each computer to access USB peripherals
- Video DynaSync™ — Exclusive ATEN technology eliminates boot-up display problems and optimizes resolution when switching between ports
- BIOS level access

\* Remote Console Only    \*\* Local Console Only



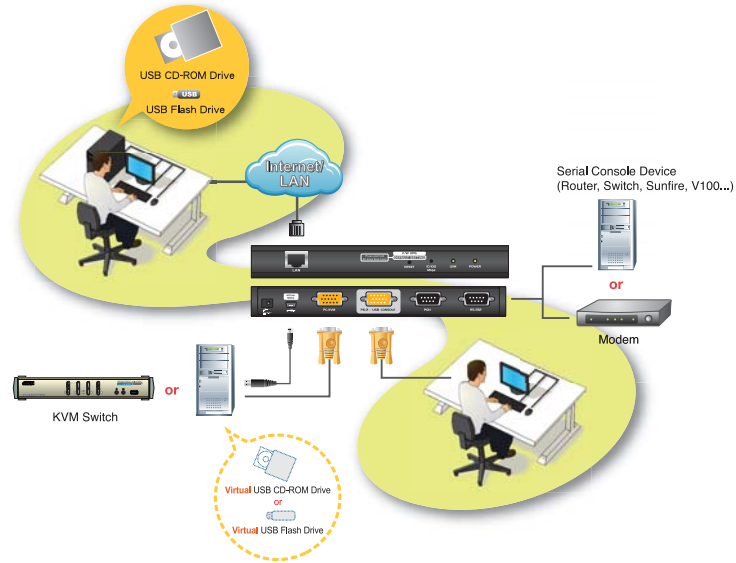
### IP8000 Remote Management PCI Card

- 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; Redhat 7.1 and above; FreeBSD, Novell

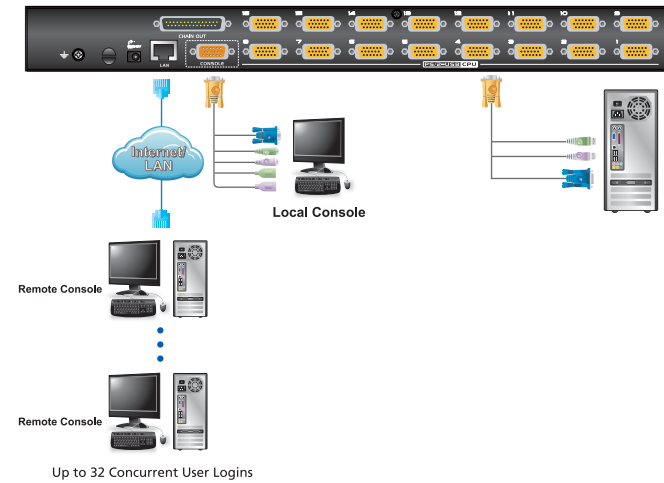




## Setup (CN8000)



## Setup (CS1716i)



## Accessories

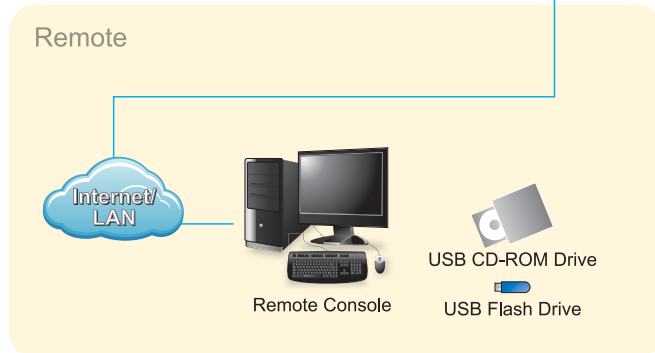
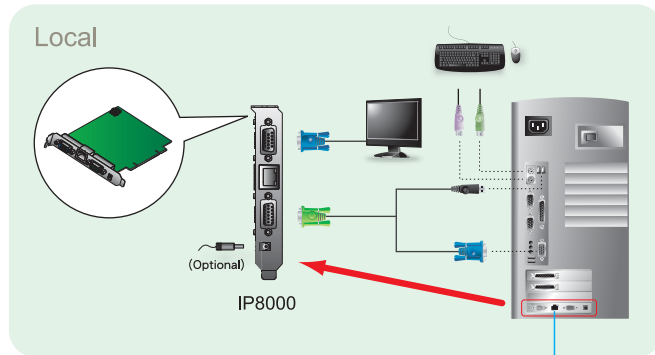


1. USB KVM Cables: 1.2m x 1 (CN8000), 1.8m x 1 (CS1708i/CS1716i, IP8000)
2. PS/2 KVM Cables: 1.2m x 1 (CN8000), 1.8m x 1 (CS1708i/CS1716i)
3. Console Cable x 1 (CN8000, CS1708i/CS1716i)
4. USB 2.0 Virtual Media Cable x 1 (CN8000)
5. Grounding Wire x 1 (CS1708i/CS1716i)
6. Firmware Upgrade Cable x 1 (CS1708i/CS1716i)
7. Feature Cable x 1 (IP8000)
8. Foot Pad Set (4pcs.) x 1 (CS1708i/CS1716i)
9. Software CD x 1 (CN8000, CS1708i/CS1716i, IP8000)
10. Power Adapter: DC5.3V x 1 (CN8000, CS1708i/CS1716i), DC5V x 1 (IP8000)
11. Rack Mount Kit x 1 ((CS1708i/CS1716i)
12. Rack Mount Kit x 1 (CN8000)

## Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Product
USB KVM Cables	2L-5201U (1.2m); 2L-5202U (1.8m); 2L-5203U (3m); 2L-5205U (5m)	P54-L	CN8000, CS1708i/CS1716i, IP8000
PS/2 KVM Cables	2L-5201P (1.2m); 2L-5202P/2L-5702P (1.8m); 2L-5203P (3m); 2L-5206P (6m)	P53-B, P53-C	CN8000, CS1708i/CS1716i
Daisy-chain Cables	2L-1700 (0.6m); 2L-1701 (1.8m); 2L-1703 (3m); 2L-1705 (5m)	P54-S	CS1708i/CS1716i

## Setup (IP8000)



## Specifications

### KVM On the Net™

Model No.		CN8000	CS1708i/CS1716i	IP8000	
Computer Connections	Direct	1	8/16	1	
	Max.	-	128/256	1	
Bus Sessions	Local	1	1	1	
	Remote				
Local Console		PS/2, USB	PS/2, USB	USB	
Concurrent Access		32	32	32	
User Accounts		64	64	64	
Share Mode Support		•	•	•	
Message Board		•	•	•	
Panel Array Mode			•		
External Authentication Support		•	•	•	
Log Server and Log Event		•	•	•	
Smart Card Reader		•			
DDNS		•			
Virtual Media		•		•	
Serial Console Management		•			
External PON		•			
External Modem Support		•			
On-Screen Keyboard Support		•	•		
Mouse DynaSync™		•	•		
Remote Desktop Scaling		•			
Power Consumption		DC5.3V,6.3W	DC 5.3 V; 5 W	DC 5.3 V; 6.6 W	DC5V, 6W
Environment	Operating Temp.		0-50°C		
	Storage Temp.		-20-60°C		
	Humidity		0-80% RH, Non-condensing		
	Housing		Metal		-
Physical Properties	Weight	0.49 kg	2.66 kg	2.85 kg	0.10 kg
	Dimensions (L x W x H)	20.00 x 8.15 x 2.50 cm	43.30 x 16.00 x 4.40 cm		15.35 x 12.00 x 2.15 cm

# 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.

### • 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.

### • 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

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. (Models with Fingerprint Identification Reader Only)

*Not all products support these features. Please see the specifications on page 14 for details.*



## At a Glance

Model No.		CL1000	CL5800	CL1008	CL1016	CL5708	CL5716
Ports		1	1	8	16	8	16
Interface	Keyboard, Mouse	PS/2	PS/2	PS/2	PS/2	PS/2-USB	PS/2-USB
	Video	VGA	VGA	VGA	VGA	VGA	VGA
Expansion				128 (Daisy-chain)	256 (Daisy-chain)	256 (Daisy-chain)	512 (Daisy-chain)
Second Console			PS/2, USB, HDB-15 (SPHD)			PS/2, USB, HDB-15 (SPHD)	PS/2, USB, HDB-15 (SPHD)
Platform Support		PC	PC, Sun	PC	PC	PC, Mac, Sun	PC, Mac, Sun
LCD		17"	19"	17"	17"	17"	17"
Single Rail / Dual Rail		Single Rail	Dual Rail	Single Rail	Single Rail	Single Rail	Single Rail
Fingerprint Identification						•	•

\* Models with Fingerprint Identification Reader Only

# Business

## LCD KVM Switches



**Slideaway™**  
**CL5708 / CL5716**  
**8/16-Port LCD KVMP 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, 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 @ 75 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



**Slideaway™**  
**CL1008 / CL1016**  
**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
- Superior video quality – up to 1280 x 1024 @75Hz Supports DDC, DDC2, DDC2B
- 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



**Slideaway™**  
**CL1000**  
**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
- Superior video quality – up to 1280 x 1024 @75Hz Supports DDC, DDC2, DDC2B
- DDC emulation of the LCD monitor – 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



Shared Access 2 Local Users	2nd Console PS/2, USB	Computers PS/2, USB	USB Peripherals 1 Port	External Mouse USB
OS Support Win, Mac, Linux, Sun, FreeBSD	Expansion Daisy Chain	LCD Monitor 17"		



Computers PS/2	OS Support Win, Linux, FreeBSD	Expansion Daisy Chain	LCD Monitor 17"	USB, Sun Friendly
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Computers PS/2	OS Support Win, Linux, FreeBSD	LCD Monitor 17"
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**Slideaway™**  
**CL5800**  
**Dual Rail LCD PS/2 - USB Console**

- Integrated KVM console with a 19" LCD monitor in a Slideaway dual rail housing
- Dual rail design allows LCD monitor and keyboard/touch pad modules to operate independently
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Compatible with all ATEN KVM Switches and most other KVM switches
- Supports an external console with either PS/2 or USB connectors
- Dual interface – Supports computers and KVM switches with PS/2 or USB keyboards and mice
- Additional hot-pluggable USB mouse port on front panel
- Less than 1 U high mountable rack
- Internal power built in
- Adjustable depth to fit within the rack
- Superior video quality -up to 1280 x 1024 @75Hz DDC, DDC2, DDC2B
- DDC emulation of the LCD monitor
- Improved design-optional single person installation kit



Shared Access  
2 Local Users

2nd Consoles  
PS/2, USB

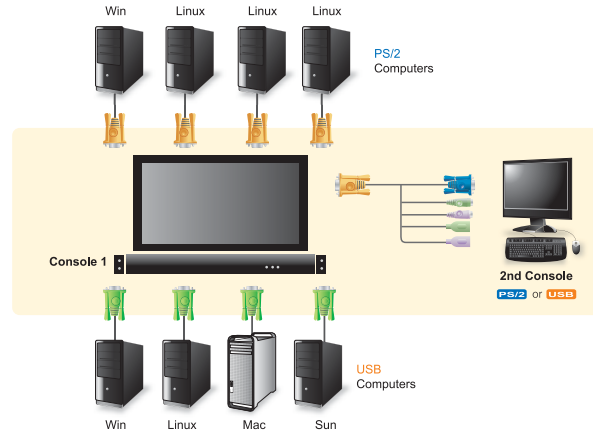
Computers  
PS/2, USB

External Mouse  
USB

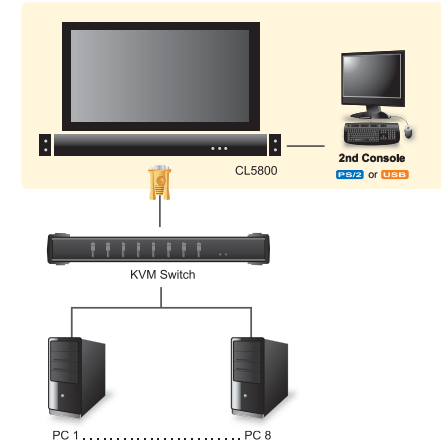
OS Support  
Win, Linux, Sun

LCD Monitor  
19"

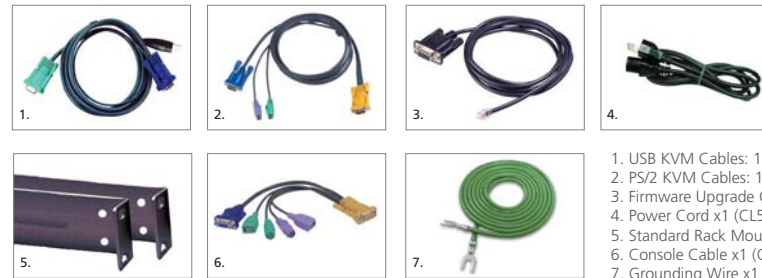
**Setup (CL5708)**



**Setup (CL5800)**



**Accessories**



1. USB KVM Cables: 1.8 m x1 (CL5708/CL5716, CL5800)
2. PS/2 KVM Cables: 1.8 m x1 (CL5708/CL5716, CL1000); 1.8 m x2 (CL1008/CL1016, CL5800)
3. Firmware Upgrade Cable: 1.8 m x1 (CL5708/CL5716, CL1008/CL1016, CL5800)
4. Power Cord x1 (CL5708/CL5716, CL1008/CL1016, CL1000, CL5800)
5. Standard Rack Mount Kit x1 (CL5708/CL5716, CL1008/CL1016, CL1000, CL5800)
6. Console Cable x1 (CL5708/CL5716)
7. Grounding Wire x1

**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)	P53-B, P53-C	CL5708/CL5716, CL1008/CL1016, CL1000, CL5800
USB KVM Cables	2L-5201U (1.2 m); 2L-5202U (1.8 m); 2L-5203U (3 m); 2L-5205U (5 m)	P54-L	CL5708/CL5716, CL5800
Daisy-chain Cables	2L-1700 (0.6 m); 2L-1701 (1.8 m); 2L-1703 (3 m); 2L-1705 (5 m)	P54-S	CL5708/CL5716, CL1008/CL1016,
Rack Mount Kit	Easy-Installation Rack Mount Kit – Short / Easy-Installation Rack Mount Kit – Long / Standard Rack Mount Kit - Long	P14	CL5708/CL5716, CL1008/CL1016, CL1000, CL5800
Cables & Converters for USB interface support	PC compatible: 2L-5202UP(1.8 m); 2L-5203UP(3 m); 2L-5205UP(5 m); 2L-5206UP(6 m)	P53-E	CL1008/CL1016
	Windows/Mac compatible: UC100KMA	P39	
	Sun (USB) compatible: CV131A; Sun (Legacy) compatible: CV130A	P39, P40	

## Specifications

### LCD KVM Switches

Model No.		CL5800	CL1000	CL1008	CL1016	CL5708	CL5716	
Ports		1	1	8	16	8	16	
Expansion		N/A	N/A	128 (Daisy-chain)	256 (Daisy-chain)	256 (Daisy-chain)	512 (Daisy-chain)	
Computer	Connector	SPHD	SPHD	SPHD	SPHD	SPHD	SPHD	
	Platform	PS/2,USB	PS/2	PS/2	PS/2	PS/2,USB	PS/2,USB	
Second Console		PS/2, USB, HDB-15	N/A	N/A	N/A	PS/2, USB, HDB-15 (SPHD)	PS/2, USB, HDB-15 (SPHD)	
Platform Support	PC	•	•	•	•	•	•	
	Mac/Sun	•	•	•	•	•	•	
LCD		19"	17"	17"	17"	17"	17"	
Port Selection		N/A	N/A	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	OSD, Hotkey, Pushbutton	
Emulation		PS/2, USB	PS/2	PS/2	PS/2	PS/2, USB	PS/2, USB	
Video Resolution		1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	1280x1024	
USB Peripheral		N/A	N/A	N/A	N/A	•	•	
Scan Interval (Sec.)		N/A	N/A	1-255	1-255	1-255	1-255	
Power Consumption	17" LCD	N/A	120V, 21W/ 230V, 24W	120V, 23W/ 230V, 25W	120V, 26W/ 230V, 28W	120V, 27.5W/ 230V, 28W	120V, 27.5W/ 230V, 28W	
	19" LCD	120V, 32.2W/ 230V, 32.2W	N/A					
Environment	Operating Temp	17" LCD	N/A	0-40°C				
		19" LCD	0-50°C	N/A				
	Storage Temp.	-20-60°C						
Humidity		0-80% RH, Non-condensing						
Housing		Metal + Plastic						
Physical Properties	Weight	17" LCD	N/A	12.53 kg	13.33kg	13.53kg	13.77 kg	13.97 kg
		19" LCD	17.76 kg	N/A				
	Dimensions (D x W x H)	17" LCD	N/A	53.40 x 48.00 x 4.40 cm	63.40x 48.00x 4.40 cm			
19" LCD		68.04 x 48.00 x 4.40 cm	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 Extenders



## 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
- **Deskew Function**  
Automatically synchronizes the time delay of RGB signals to compensate for distance

- **IP Enabled**  
Remotely access computers on your KVM installation via intranet
- **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 see the specifications on page 21 for details.



## At a Glance

Model No.	CE790	CE770	CE700A	CE800B	CE750	KE0220	CE300	CE250A	CE252
Distance	No limitation (Intranet access)	300 m	150 m	250 m	200 m	200 m	100 m	150 m	300 m
Interface	USB	USB	USB	USB	USB	PS/2	PS/2	PS/2	PS/2
Audio	•	•		•	•	•	•		
Automatic Gain Control		•	•	•	•	•	•	•	•
USB Port for File Sharing, & Security Login				•					
RS-232	•	•			•				
Patented Deskew		•							
IP Enabled	•								

# Business

## KVM Extenders



Unlimited Access

### ProXime<sup>™</sup> CE790 Digital KVM Extender + Audio

Unlimited access from anywhere over the intranet

- Transmits over intranet – works over existing LAN environment – unlimited distance, no trailing smear
- Allows flexible point-to-point (unicast), point-to-multipoint, and multipoint-to-multipoint (multicast)\* administration without the need for an additional KVM switch
- Supports high quality digital audio and video streaming from anywhere on the intranet
- Superior video quality – up to 1920 x 1080
- Provides an intuitive On Screen Display (OSD) on both the transmitter and receiver units for easy setup and operation
- Connects to a serial terminal for configuration and serial devices such as touchscreens and barcode scanners

\* With IGMP enabled network switches/hubs



NEW

Extension 300m

### ProXime<sup>™</sup> CE770 USB KVM Extender + Audio

With Deskew Functionality

- Uses Cat 5e cable to connect the local and remote units (up to 300m apart)
- Dual console operation – control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- Deskew Function – automatically synchronizes the time delay of RGB signals to compensate for distance
- Pushbutton selection of the active console
- Built-in ASIC for greater reliability and compatibility
- Auto Signal Compensation (ASC)
- Supports VGA, SVGA, SXGA, UXGA, WUXGA and multisync monitors- local monitor supports DDC; DDC2; DDC2B
- RS-232 serial ports – allow you to connect to a serial terminal, or serial devices such as touchscreens and barcode scanners
- Sun/Mac keyboard support and emulation\*
- Supports stereo speakers and microphone
- Superior Audio – no loss in audio quality at 300 m
- Built-in 8KV/15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection
- Adjustable gain control – manually adjusts signal strength to compensate for distance
- Superior video quality – up to 1920 x 1200@60Hz (150 m); 1280 x 1024@60Hz (300 m)
- Supports Wide Screen formats
- Rack mountable

\*1. PC keyboard combinations emulate Sun/Mac keyboards  
2. Sun/Mac keyboards only work with their own computers



NEW

Extension 150m

### CE700A USB KVM Extender

With Low Power Consumption

- Uses Cat 5e cable to connect the local and remote units (up to 150m apart)
- Dual console operation – control your system from both the local and remote USB keyboard, monitor, and mouse consoles
- Pushbutton selection of the active console
- Built-in ASIC for greater reliability and compatibility
- Auto Signal Compensation (ASC)
- Supports VGA, SVGA, SXGA, UXGA, WUXGA and multisync monitors; local monitor supports DDC; DDC2; DDC2B
- USB overcurrent detection and prevention
- Built-in 8KV/15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection
- Adjustable gain control – manually adjusts signal strength to compensate for distance
- Superior video quality – up to 1920 x 1200@60Hz (30m); 1600 x 1200@60Hz (100m); 1280 x 1024@60Hz (150m)
- Rack mountable



Console USB	Computers SPD	IP Ready Intranet	Resolution 1920 x 1080
OS Support Win, Linux, FreeBSD	Wide Screen Support	OSD Transmitter	OSD Receiver
RS-232	Audio Mic. & Speaker	Auto MDIX	



Console USB	Computers SPD	Resolution 1920 x 1200	OS Support Win, Mac, Linux, Sun
ATEN Deskew	Wide Screen Support	RS-232	Audio Mic. & Speaker
Surge Protection			



Console USB	Computers SPD	Resolution 1920 x 1200	OS Support Win, Linux, FreeBSD
Low Power Consumption	Surge Protection		





Extension  
250m

**CE800B**  
**USB KVM Extender + Audio**  
With Virtual Storage Support

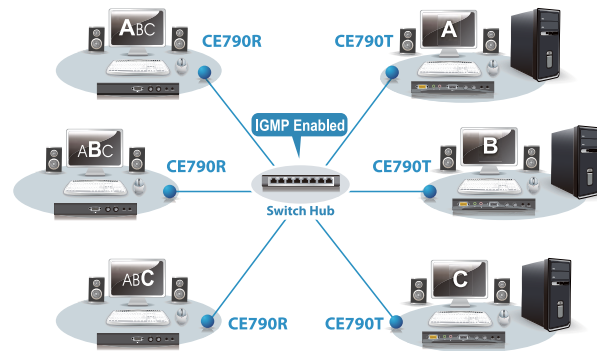
- Uses Cat 5e cable to connect the Local and Remote Units (up to 250 m apart)
- Dual console operation – control your system from both the local and remote consoles
- Pushbutton selection of the active console
- Built-in ASIC for greater reliability and compatibility
- Built-in USB port on both units 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, SXGA, UXGA, WUXGA and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Superior video quality – up to 1920x1200@60Hz (30m), 1600x1200@60Hz (150m), 1024x768@60Hz (250m)
- Built-in 8KV/15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) 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
- Rack mountable



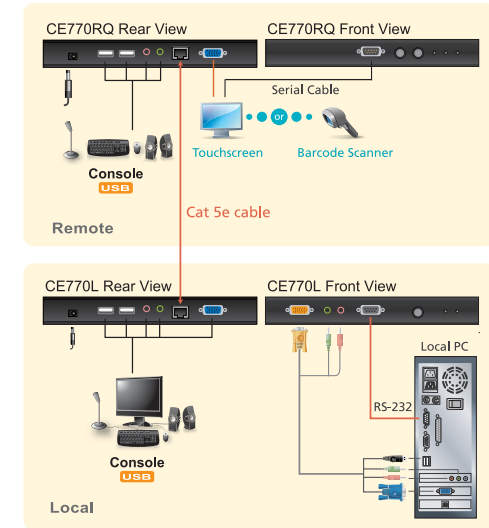
Console USB	Computers SPD USB	Resolution 1920 x 1200	OS Support Win, Linux, FreeBSD	USB 1.1 Flash Drive 1 Port (Remote)
USB 1.1 Flash Drive 1 Port (Local)	Computers USB	Audio Mic. & Speaker	Surge Protection	

CE800BL

**Setup (CE790)**



**Setup (CE770)**



**Accessories**



1. USB KVM Cables: 1.8 m x 1 (CE790, CE770, CE800B)
2. USB KVM Cables: 1.8 m x 1 (CE700A)
3. Power Adapter: DC5.3V x 2 (CE790, CE770, CE700A); DC5V x 2 (CE800B)
4. Firmware Upgrade Cable: 1.8 m x 1 (CE800B)
5. Rack Mount Kit x 1
6. Grounding Wire x 1
7. USB Cable x 1 (CE800B)

**Optional Equipment**

Type	Part No. / Spec.	Page No.	Compatible Products
USB KVM Cables	2L-5301U (1.2m); 2L-5302U (1.8m); 2L-5303U (3m); 2L-5304U (4m); 2L-5305U (5m)	P54-J	CE790, CE770, CE800B
	2L-5201U (1.2m); 2L-5202U (1.8m); 2L-5203U (3m); 2L-5205U (5m)	P54-L	CE700A

# Business

## KVM Extenders



Extension  
200m

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

- Uses Cat 5e cable to connect the local and remote units (up to 200m apart)
- 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, or serial devices such as touchscreens and barcode scanners
- Supports stereo speakers and stereo microphone
- USB overcurrent detection and prevention
- Pushbutton selection of the active console
- Built-in 8KV/15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) and 2KV surge protection
- Adjustable gain control – manually adjusts signal strength to compensate for distance
- Superior video quality – up to 1920x1200@60Hz (30m), 1600x1200@60Hz (150m), 1280x1024@60Hz (200m)
- Supports VGA, SVGA, SXGA, UXGA, WUXGA and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Rack mountable



**KE8220**  
**Wireless Presentation System**  
Virtual VNC Console

- 802.11 b/g support for wireless presentations without cable swapping
- Display computer's screen on projector via network without distance limitation
- Real-time display of PowerPoint presentations, images and applications
- Seamlessly switch focus between computers with a single mouse-click
- Compatible with all projectors and displays with standard VGA connectors
- Supports high-quality video display resolutions up to SXGA (1280 x 1024) @ 60 Hz
- Executable AltusenVNC software downloadable from the KE8220 embedded web server – enables real time presentations
- No Access Point required – AD-HOC mode with DHCP server support enables a direct wireless connection between the KE8220 and a laptop PC
- Automatic discovery and multilingual UI support simplifies presentation process
- Wireless WEP key (64, 128 & 256-bit) to protect your presentation materials
- Supports static and automatic (DHCP) network configuration
- Compatible with Windows 2000/2003/XP/Vista
- Rack mountable



Extension  
200m

**KE0220**  
**Audio KVM Extender**

- Uses Cat 5e cable to connect the local and remote units (up to 200m apart)
- Dual console operation – control your system from both the local and remote PS/2 keyboard, monitor, and mouse consoles
- Pushbutton selection of the active console
- Built-in ASIC for greater reliability and compatibility
- Auto Signal Compensation (ASC)
- Supports VGA, SVGA, SXGA, UXGA, WUXGA and multisync monitors; local monitor supports DDC; DDC2; DDC2B
- Supports stereo speakers and microphone
- Adjustable gain control-manually adjusts signal strength to compensate for distance
- Superior video quality – up to 1600 x 1200@60Hz (150m); 1280 x 1024@60Hz (200m)
- Rack mountable
- Firmware Upgradable





Extension  
100m

### 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, SXGA and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Rack Mountable
- Firmware upgradable

Console PS/2	Computers SPHD PS/2	<b>Resolution</b> 1280 x 1024
<b>OS Support</b> Win, Linux, FreeBSD	Audio Mic. & Speaker	



Extension  
150m

### CE250A PS/2 KVM Extender

High Surge Protection KVM Extender

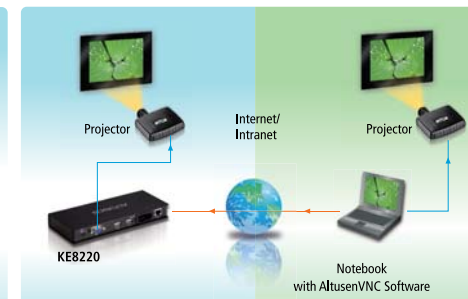
- Uses Cat 5e cable to connect the Local and Remote Units (up to 150 m apart)
- Dual console operation - control your system from both the local and remote consoles
- Pushbutton selection of the active console
- Automatic gain control automatically adjusts signal strength to compensate for distance
- Built-in ASIC for greater reliability and compatibility
- Superior video quality – up to 1280 x 1024
- Supports VGA, SVGA, SXGA 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 (Contact voltage 8KV; Air voltage 15KV) 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

Console PS/2	Computers SPHD PS/2	<b>Resolution</b> 1280 x 1024
<b>OS Support</b> Win, Linux, FreeBSD	Surge Protection	Non-Powered (Local Unit)

### Setup (KE8220)



Conference Room



Remote Conference Room Local Conference Room

### Accessories



1. USB KVM Cables: 1.8 m x 1 (CE750)
2. PS/2 KVM Cable: 1.8 m x 1 (KE0220, CE300)
3. PS/2 KVM Cables: 1.8 m x 1 (CE250A)
4. Power Adapters: DC5.3V x 2 (KE8220, KE0220, CE300); DC5V x 1 (CE250A);
5. Firmware Upgrade Cable: 1.8 m x 1 (KE0220, CE300)
6. Rack Mount Kit x 1 (CE300)
7. Rack Mount Kit x 1 (KE8220, KE0220, CE250A)
8. Wireless-G USB Adapter x 1 (KE8220)
9. Software CD x 1 (KE8220)
10. Grounding Wire x 2 (CE250A)

### Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Products
USB KVM Cables	2L-5301U (1.2m); 2L-5302U (1.8m); 2L-5303U (3m); 2L-5304U (4m); 2L-5305U (5m)	P54-J	CE750
	2L-5301P (1.2 m); 2L-5302P (1.8 m); 2L-5303P (3 m); 2L-5305P (5 m)	P54-K	KE0220 ,CE300
PS/2 KVM Cables	2L-5201P (1.2 m); 2L-5202P/2L-5702P (1.8 m); 2L-5203P (3 m); 2L-5206P(6 m); 2L-1030P(30m); 2L-1040P(40m)	P53-A, P53-B, P53-C	CE250A
	Cables for USB interface support	P53-E	CE250A
VGA Over Cat 5 Repeater	VE550	N/A	KE0220, CE300, CE250A
Video Synchronizer	VE510	N/A	KE0220, CE300, CE250A

\* For more information on VE550 and VE510, please see the VanCryst product catalog, or visit our website [www.aten.com](http://www.aten.com)

# Business

## KVM Extenders

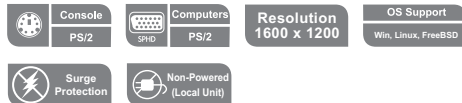


Extension  
300m

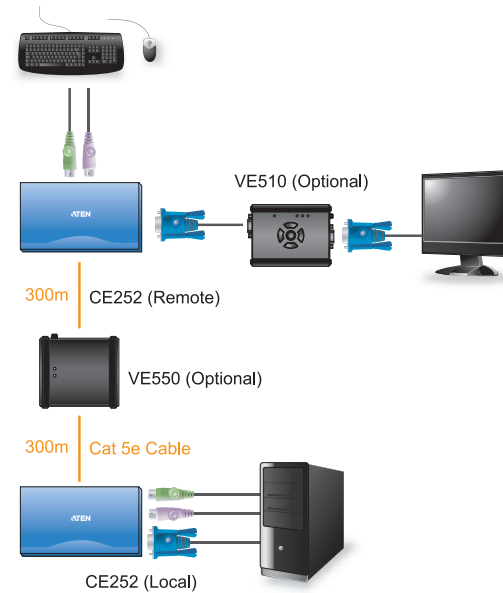
### CE252 KVM Extender

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, SXGA, UXGA and multisync monitors – Local monitor supports DDC; DDC2; DDC2B
- Built-in 8KV/15KV ESD protection (Contact voltage 8KV; Air voltage 15KV) 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



### Setup



### Accessories



1. PS/2 KVM Cables: 1.8 m x 1 (CE252)
2. Power Adapters: DC5.3V x 1 (CE252, VE550);
3. Rack Mount Kit x 1 (CE252)
4. Grounding Wire x 1 (VE550);  
Grounding Wire x 2 (CE252)
5. Rack Mount Kit x 1 (VE550)

### 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)	P53-B, P53-C	CE252
Cables for USB interface support	PC compatible: 2L-5202UP (1.8 m); 2L-5203UP (3 m); 2L-5205UP(5m); 2L-5206UP (6 m)	P53-E	CE252
VGA Over Cat 5 Repeater	VE550	N/A	KE0220, CE300, CE250A
Video Synchronizer	VE510	N/A	KE0220, CE300, CE250A

\* For more information on VE550 and VE510, please see the VanCryst product catalog, or visit our website [www.aten.com](http://www.aten.com)

# Specifications

## KVM Extenders

Model No.	CE790	CE770	CE700A	CE800B	CE750	KE8220	KE0220	CE300	CE250A	CE252	
Distance	No limitation	300 m	150 m	250 m	200 m	Wireless	200 m	100 m	150 m	300 m	
Interface	Console	USB	USB	USB	USB	USB	PS/2	PS/2	PS/2	PS/2	
	Server	USB	USB	USB	USB	USB	PS/2	PS/2	PS/2	PS/2	
Video Resolution	1920 x 1080 at unlimited distance	1920 x 1200 at 150 m; 1280 x 1024 at 300m	1920 x 1200 at 30 m; 1280 x 1024 at 150m	1920 x 1200 at 30 m; 1600 x 1200 at 150m; 1024 x 768 at 250m	1920 x 1200 at 30 m; 1600 x 1200 at 150m; 1280 x 1024 at 200m	1280 x 1024	1280 x 1024 at 200 m; 1600 x 1200 at 150 m	1280 x 1024 at 150 m	1280 x 1024 at 150 m	1024 x 768 at 300 m; 1600 x 1200 at 150 m	
IP Enabled	•					•					
Deskew Function		•									
Audio	Speaker	•	•	•	•		•	•			
	Mic.	•	•	•	•		•	•			
Automatic 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*				•		•					
Wide screen support	•	•	•	•	•						
Auto MDIX support	•										
Power Consumption (L/R)	DC5.3V, 6.62W/ DC5.3V, 6.36W	DC5.3V, 3.5W/ DC5.3V, 5.1W	DC5.3V, 2.31W/ DC5.3V, 2.84W	DC5V, 6W	DC5.3V, 3.0W/ DC5.3V, 4.2W	DC 5.3V, 3.8W	DC5.3V, 2.7W	DC5.3V, 2.5W	DC5V, 1.25W	DC 5.3V, 2.6W	
Environment	Operating Temp	0-50°C									
	Storage Temp.	-20-60°C									
	Humidity	0-80% RH, Non-Condensing									
Physical Properties	Housing	Metal									
	Weight (L/R)	0.50 kg(T) / 0.48 kg(R)	0.49 kg / 0.48 kg	0.32 kg / 0.31 kg	0.50 kg / 0.49 kg	0.49 kg	0.50 kg	0.50 kg	0.38 kg/ 0.37 kg	0.33 kg/ 0.32 kg	0.35 kg
	Dimensions (L x W x H) (L/R)	20.00 x 8.00 x 2.50 cm	20.00 x 8.00 x 2.50 cm	12.50 x 8.15 x 2.50 cm	20.00 x 8.00 x 2.50 cm	20.00 x 8.00 x 2.50 cm	20.00 x 8.00 x 2.50 cm	20.00 x 8.00 x 2.50 cm	13.90 x 8.80 x 3.80 cm	12.50 x 8.15 x 2.50 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.

# Business

## Computer Sharing Devices



ATEN Computer Sharing Devices enable two users to share the programs, files, and resources of a single computer from two separate consoles.



### CS231

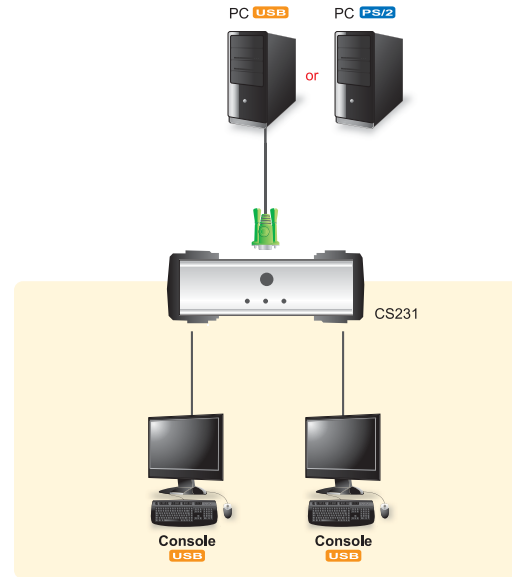
#### Computer Sharing Device

Two Users Share a Single Computer (USB or PS/2)

- Single computer is shared by two USB consoles
- Supports USB and PS/2 computers
- Multiplatform Support (Windows, Mac, Unix, Linux)
- Manual or Auto console selection
- On Screen Display informs user when system is in use
- No Software required
- Private Mode for a privileged user
- Screensaver function
- Supports VGA, SVGA multisync monitors
- Firmware upgradable



### Setup (CS231)



### Accessories



1. USB KVM Cable: 1.8 m x 1
2. Power Adapters: DC5.3V x 1
3. Firmware Upgrade Cable: 1.8 m x 1

### Optional Equipment

Type	Part No. / Spec.	Page No.	Compatible Product
USB KVM Cables	2L-5201U (1.2m); 2L-5202U (1.8m); 2L-5203U (3 m); 2L-5205U (5 m)	P54-L	CS231
PS/2 KVM Cables	2L-5201P(1.2m); 2L-5202P/2L-5702P (1.8 m); 2L-5203P (3 m); 2L-5206P (6 m)	P53-B, P53-C	
Adapters for PS/2 console support	PS/2 to USB Converter: UC10KM	P39	

## Specifications

### Computer Sharing Device

Model No.	CS231	
Computer Connections	1	
Console Connections	2	
Interface	Console	USB, HDB-15
	Computer	PS/2 or USB, HDB-15 (SPHD)
Multiplatform Support	•	
Auto Mode	•	
Manual Mode	•	
Mode Selection Switch	•	
Private Mode	•	
OSD Information	•	
Screen Saver	•	
Firmware Upgradable	•	
Timeout Setting	•	
Hotkey Operation	•	
Keyboard Emulation Mapping	•	
Power Consumption	DC5.3V, 2.2W	
Environment	Operating Temp.	0–50°C
	Storage Temp.	-20–60°C
Physical Properties	Humidity	0–80% RH, Non-condensing
	Housing	Metal
	Weight	0.56 kg
	Dimensions (L x W x H)	14.00 x 8.70 x 5.50 cm