

8/16-Port Cat 5 Dual Rail LCD KVM over IP Switch

1 local / 1 remote user access

KL1108VN / KL1116VN

- ATEN's KL1108VN / KL1116VN 8/16-port Cat 5 Dual Rail LCD KVM over IP Switch features an independently retractable, dual slide 19" LED-backlit LCD monitor and keyboard with built-in touchpad.

The KL1108VN and KL1116VN switches allow local console and remote over IP access for operators to monitor and manage their entire data center locally at the switch, and over a network using a web-based browser. In addition, they offer out-of-band access with external modem support for BIOS-level troubleshooting when the network is down.

To help manage and control an entire data center, our KL1108VN / KL1116VN KVM over IP switches support blade servers and chassis with powerful new features such as Power Association which allows KVM ports to be associated with ATEN PDU power outlets for power management of servers from the KVM switches' user interface.

The KL1108VN and KL1116VN KVM over IP switches now support the new Control Center Video Session Recorder (CCVSR) and CC2000 Centralized Management Software. The CC2000 puts administrators in complete control of remote data centers and branch offices no matter where they are in the world – allowing them to remotely monitor and control all devices on a network, including blade server chassis, individual blades and virtual machines. The CCVSR records all operations on servers accessed through KVM over IP switches. Every operation and change from the BIOS level to logging in, from running software applications to configuring the operating system is recorded and saved to a secure video file as evidence, without exception.

The Virtual Media function lets you map to storage media on USB, hard disk and DVD/CD drives located on remote servers – allowing administrators to conduct file transfers, install applications, run O.S. updates, or perform diagnostics across a network with ease.

Enhanced capabilities of KVM over IP switches also include: a Message Board, Panel Array Mode™, Mouse DynaSync™, Adapter ID and Secure Serial Server Access. The secure access to serial-controlled devices includes network equipment, UNIX servers, Linux servers, Sun servers and many more serial consoles. It provides installation without needing expensive serial dongles.

With dual on-board NICs and out-of-band access with external modem support, the KVM over IP switches are built for reliability, to ensure 24/7 availability of remote access to all server room computers.

With ATEN KVM over IP switches, IT administrators can manage their server rooms and data centers from practically anywhere – minimizing travel costs and MTTR (Mean Time to Repair) – ensuring the highest availability of data center services possible.

KL1116VN Front view



KL1116VN Rear view



Features

Exclusive Features

- High-Grade Security – supports FIPS 140-2 level 1 security standards
- Advanced FPGA graphics processor with HD resolutions up to 1920 x 1200
- 2x faster virtual media transmission speeds

Hardware

- Exclusive LED illumination light designed by ATEN to illuminate the keyboard and touchpad to allow visibility in lowlight conditions
- Integrated KVM console with 19" LED-backlit LCD monitor in a dual rail housing
- One bus for local and one bus for remote KVM over IP access
- Space-saving RJ-45 ports for Cat 5e/6 cable connections
- KVM adapter cables with automatic conversion allow flexible interface combinations (PS/2, USB, Sun and serial) to control all computer types
- Extra Console Ports – manage computers from the built-in LCD screen or an external console setup (monitor, USB keyboard and mouse)
- Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
- Supports external USB mouse
- Dual rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
- Dual Rail Housing – allows the LCD monitor to slide independently of the keyboard and touchpad
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Console lock enables the console drawer to remain securely locked away when not in use
- LCD power button saves energy and prolongs the life of the display
- High Port Density – RJ-45 connectors provide up to 16 ports in 1U housing
- Two 10/100/1000 Mbps NICs for redundant LAN or dual IP operation
- Blade server support
- Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
- High Video Resolutions – up to 1920 x 1200 @ 60 Hz with 24-bit color depth at the switch's external local console and on remote displays; up to 1280 x 1024 @ 75 Hz at the switch's built-in LCD screen
- Monitor and control up to 16 computers on a single level or control up to 256 computers in a cascade*

* Cascade-compatible KVM switches include the following: CS1308, CS1316, KH1508A and KH1516A.

Management

- Up to 64 user accounts – up to 32 concurrent users share control
- End Session Feature – administrators can terminate any remote session
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Remote power control for attached ATEN PDU devices
- Integration with CC2000 Centralized Management Software and Control Center Video Session Recorder (CCVSR) software
- Event logging and Windows-based Log Server support
- Local Log Event
- Firmware upgradeable
- IPv6 capable
- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Customizable events notification
- Out-of-Band Access – modem dial-in / dial-out / dial-back support
- Adapter ID Function – stores port information, allowing administrators to relocate servers to different ports without having to re-configure adapters or switches

Easy-to-Use Interface

- Easy computer selection via pushbuttons, OSD (On-Screen Display), and Browser-based GUI
- Local console, browser, and AP GUIs offer a unified multi-language interface to minimize user training time and increase productivity
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multi-browser support: Internet Explorer, Chrome, Firefox, Safari, Opera, Mozilla, Netscape
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without the need for Java to be pre-installed
- **ATEN Exclusive Panel Array™ Mode** – monitor all ports in a grid display of all desktops at both the local and remote screen
- **Keyboard/Mouse Broadcast** – keyboard and mouse signals can be duplicated across all servers at once
- Launch virtual remote desktop sessions to control multiple servers at the same time
- Full screen or scalable virtual remote desktop window
- **Video syncing** allows the local console monitor's EDID information to be stored on the KVM Adapter Cables for display resolution optimization

Advanced Security

- **Remote authentication support: RADIUS, LDAP, LDAPS and Microsoft Active Directory**
- Supports TLS 1.2 encryption and RSA 2048-bit certificates to secure browser logins
- 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 Keyboard/Mouse, video and virtual media data encryption
- Configurable user and group permissions for server access and control
- Automated CSR creation utility and third-party CA certificate authentication
- IP/MAC Filter support for enhanced security protection

Virtual Media

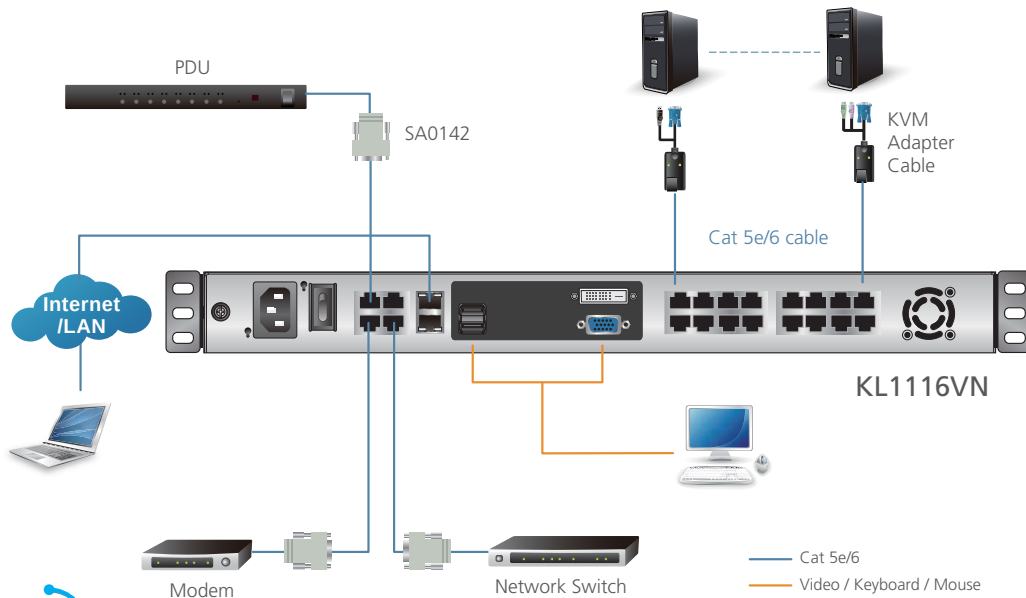
- Virtual media enables file application, OS patching, software installations and diagnostic testing
- Works with USB-enabled servers at the operating system and BIOS level
- **Supports DVD/CD drives, USB mass storage devices, hard drives and ISO images**
- Supports Smart Card/CAC Reader

Virtual Remote Desktop

- Video quality can be adjusted to optimize data transfer speeds; color depth, threshold and noise settings reduce data transmission to lower bandwidth
- Full screen or scalable window for virtual remote desktop
- **Message board feature** allows logged in users to communicate with each other
- **Mouse DynaSync™** – automatically synchronizes the local and remote mouse movements
- Exit Macro support
- On-screen keyboard with multi-language support
- BIOS-level access for troubleshooting

Highlights

Space Efficient	The KL1108VN/KL1116VN provides a streamlined method to conserve server room rack space by integrating a retractable LCD monitor, keyboard, and touchpad in a 1U dual rail housing that is designed to install easily and operate smoothly.
Convenient Monitoring	The dual rail system separates the LCD module from the keyboard/touchpad module so they can move independently of each other. This allows the keyboard/touchpad to be pushed back into the housing and out of the way when not in use, while the LCD screen can be rotated up to the rack for convenient monitoring of server operations – the LCD module's range of rotation is adjustable to provide the best viewing angle.
Enhanced Console Control	The extra console ports provide administrators with the ability to use a standard keyboard/monitor/mouse console, if they like. New powerful options allow the external console ports to connect to a KVM extender.
Easy Cabling	The KL1108VN/KL1116VN features RJ-45 connectors for Cat 5e/6 cable to connect computers up to 50 meters from the switch. Utilizing PS/2, USB, and serial KVM adapter cables for the final linkup, the KL1108VN/KL1116VN reduces cable bulk and simplifies cable management.
Easy Operation	• Computer selection via front panel pushbuttons, hotkeys, and multilingual on-screen display (OSD) menu • Multi-language keyboard support includes English(US); English(UK); French, German, German(Swiss), Greek, Hungarian, Italian, Japanese, Korean, Russian, Spanish, Swedish and Traditional Chinese.
High-Grade Security	FIPS 140-2 certified cryptography provides an FIPS mode to use an embedded FIPS 140-2 certified OpenSSL cryptographic module.
Extreme Virtual Media Speeds	Virtual media supports twice the transmission speed of comparable models and supports connecting to DVD/CD drives, USB mass storage devices, hard drives and ISO images. Virtual media allows you to conduct file transfers, application and OS patches, and run diagnostics remotely.
Advanced FPGA Graphics Processor	Our enhanced FPS throughput provides a responsive and vivid video display, offering resolutions up to 1920 x 1200 @ 60 Hz with 24-bit color at the switch's external local console, and on remote session displays.
Panel Array Mode™	Exclusive ATEN feature allows simultaneous monitoring for both local console operators and remote access users.
Blade Server Support	Support for blade server associations with KVM switch ports – allows the blade server chassis and individual blades to be integrated into the sidebar tree view for easy access.
Dual IP	Dual IP operation provides the backup for complete redundancy and reliability. Should one of the Ethernet ports become unavailable, the other will take over in order to keep the system functioning normally.



Optional

Rack Mount Kits

ATEN LCD KVM switches allow you to choose a range of optional rack mount kits to meet your needs, including the Single Person Easy Installation Rack Mount Kit, which streamlines the rack mounting process.

Normal rack mounting procedures call for at least two people to rack mount a KVM switch. The Single Person Easy Installation Rack Mount Kit enables one person to rack mount an LCD KVM switch. In just a matter of minutes, your new LCD KVM switch can go from the box to the rack.

For convenience and flexibility, there is one standard and three optional rack mounting kits available:



KVM Adapter Cables

The following KVM adapter cables are required for use with the KL1108VN / KL1116VN:

Type:	PS/2 KVM Adapter Cable	USB KVM Adapter Cable	Sun Legacy KVM Adapter Cable	Serial KVM Adapter Cable	USB Virtual Media KVM Adapter Cable	USB Virtual Media KVM Adapter Cable with Audio	USB Virtual Media KVM Adapter Cable with Smart Card Reader	DVI USB Virtual Media KVM Adapter Cable with Smart Card Reader	HDMI USB Virtual Media KVM Adapter Cable with Smart Card Reader	DisplayPort USB Virtual Media KVM Adapter Cable with Smart Card Reader
Interface:	KA7120	KA7170	KA7130	KA7140	KA7175	KA7176	KA7177	KA7166	KA7168	KA7169
	PS/2	All USB Systems	Sun Legacy	Serial	Connects to USB 2.0 ports	Connects to USB 2.0 ports + Audio	Connects to USB 2.0 ports with Smart Card Reader support	Connects to USB 2.0 ports with Smart Card Reader support	Connects to USB 2.0 ports with Smart Card Reader support	Connects to USB 2.0 ports with Smart Card Reader support
	6-pin Mini-DIN Male 6-pin Mini-DIN Male HDB-15 Male	USB Type A Male HDB-15 Male	13W3 Male DIN 8 pin Male	RS-232 DB-9 Female	USB Type A Male HDB-15 Male	USB Type A Male HDB-15 Male 2 Audio plugs	USB Type A Male HDB-15 Male	USB Type A Male DVI-D Male (Single Link)	USB Type A Male HDMI Male	USB Type A Male DisplayPort Male

Specifications

Funtion	KL1108VN	KL1116VN
Computer Connections		
Direct	8	16
Maximum	128 (via Cascade)	256 (via Cascade)
Console Connections		
Local	1	1
Remote	1	1
Port Selection	OSD, Hotkey, Pushbuttons	OSD, Hotkey, Pushbuttons
Connectors		
Console Ports	2 x USB Type A Female (White)	2 x USB Type A Female (White)
	1 x DVI-D Female (White)	1 x DVI-D Female (White)
	1 x HDB-15 Female (Blue)	1 x HDB-15 Female (Blue)
KVM Ports	8 x RJ-45 Female	16 x RJ-45 Female
Power	1 x IEC 60320/C14	1 x IEC 60320/C14
External Mouse Port	1 x USB Type-A Female (White)	1 x USB Type-A Female (White)
LAN Ports	2 x RJ-45 Female	2 x RJ-45 Female
PON	1 x RJ-45 Female	1 x RJ-45 Female
Modem	1 x RJ-45 Female	1 x RJ-45 Female
Serial	2 x RJ-45 Female	2 x RJ-45 Female
Switches		
Power	1 x Rocker	1 x Rocker
LCD Power	1 x Pushbutton	1 x Pushbutton
LCD Adjustment	4 x Pushbutton	4 x Pushbutton
Port Selection	8 x Pushbutton	16 x Pushbutton
Reset	1 x Semi-recessed Pushbutton	1 x Semi-recessed Pushbutton
LEDs		
Online	8 (Green)	16 (Green)
Selected	8 (Orange)	16 (Orange)
Power	1 (Blue)	1 (Blue)
Lock	1 x Num Lock (Green)	1 x Num Lock (Green)
	1 x Caps Lock (Green)	1 x Caps Lock (Green)
	1 x Scroll Lock (Green)	1 x Scroll Lock (Green)
Link	1 (Green)	1 (Green)
10/100/1000 Mbps	2 (10: Orange/100: Orange+Green/ 1000: Green)	2 (10: Orange/100: Orange+Green/ 1000: Green)
LCD Power	1 (Orange)	1 (Orange)
Emulation		
Keyboard / Mouse	PS/2; USB	PS/2; USB
Video	1280 x 1024 @ 75 Hz; DDC2B (Local); 1920 x 1200 @ 60 Hz; DDC2B (Remote)	1280 x 1024 @ 75 Hz; DDC2B (Local); 1920 x 1200 @ 60 Hz; DDC2B (Remote)
Scan Interval	1 - 255 Sec.	1 - 255 Sec.
Maximum Input Power Rating	100 - 240V AC; 50 - 60 Hz; 1 A	100 - 240 V AC; 50 - 60 Hz; 1A
Power Consumption	110 V/29.0 W; 220 V/29.4 W	110 V/32.1 W; 220 V/32.4 W
Environmental		
Operating Temperature	0° to 40°C	
Storage Temperature	-20° to 60°C	
Humidity	0 - 80% RH, Non-condensing	
Physical Properties		
Housing	Metal	Metal
Weight	15.22 kg	15.28 kg
Dimensions (L x W x H)	48.00 x 70.12 x 4.40 cm	48.00 x 70.12 x 4.40 cm
Panel Spec		
LCD Module	19"	
Response time	5 ms	
Viewing Angle	170° (H), 160° (V)	
Pixel Pitch	0.294 mm x 0.294 mm	
Support Color	16.7M colors	
Contrast Ratio	1000 : 1	
Luminance	250 cd/m²	

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