

8/16-Port KVM over IP Switch 1 local / 1 remote user access

KN1108v / KN1116v

- Aten's new generation of KVM over IP switches - KN series allows local console access and remote over IP access for operators to monitor and access their entire data center 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 you manage and control an entire data center, our KVM over IP switches support blade servers and chassis. With powerful new features such as Power Association- KVM ports can be associated with ATEN PDU power outlets for power management of servers from the KVM over IP switches' user interface.

KVM over IP switches now support the new Control Center Video Session Recorder (CCVSR) software. The CCVSR records all operations made 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 dual power supplies, 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.

KN1116v front view



KN1116v rear view



Features

Hardware

- High port density – RJ-45 connectors for up to 8/16 ports in a 1U housing
- Laptop USB Console (LUC) – A dedicated USB port directly connects to a laptop for easy Console operation
- Simultaneously share access to one local console and one remote KVM over IP switches
- Two 10/100/1000 Mbps NICs for redundant LAN or two IP operation
- Blade server support
- Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
- Local console provides PS/2 and USB keyboard and mouse support
- Supports multiplatform server environments: Windows, Mac, Sun, Linux and VT100 based serial devices
- Audio enabled
- Virtual Media support lets you map DVD-CD-ROMs and other storage media to a remote server
- Dual Power Supply
- High video resolution - up to 1600 x 1200 @ 60Hz(40m with KVM Adapter Cable KA7000 series) /1920 x 1200* @ 60Hz(30m)for local and remote sessions
- Monitor and control up to 16 computers on a single level, or control up to 256 computers in a two-level cascade**.

*1920 x 1200 (Reduced blanking) only supported by KA7175, KA7176, and KA7177

** Cascade-compatible KVM Switches include the following: CS9134, CS9138, CS88A, KH1508, KH1516, KH1508A, and KH1516A

Management

- Up to 64 user accounts – up to 32 users simultaneously share the control
- End session feature – administrators can terminate running sessions
- Event logging and Windows-based Log Server support
- Critical system event notification via SMTP email; SNMP trap and Syslog support
- Firmware upgradeable
- Out-of-Band Access-Modem dial-in/dial out/dial back support
- Adapter ID Function: Stores port information allowing administrators to relocate the servers to different ports, without having to re-configure the adapters and switches
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Integration with ATEN CC2000 Management software
- Power Association enables the switch's KVM ports to be associated with an ATEN'S PDUs power outlets for remote power management of the servers from the switch's interface
- Power Over the NET™ integration for remote power control, plus support for 3rd party power distribution units (PDUs)
- Manage browser access methods (Browser, http, https)
- IPv6 capable

Ease-to-Use Interface

- Local Console, browser-based, and AP GUIs offer a unified multilanguage interface to minimize the 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 pre-installed Java software package required
- Magic Panel – a special hideaway control panel with configurable function icon
- Full-screen or sizable and scalable Virtual Remote Desktop
- Panel Array Mode available to both local console operators and remote access users
- Keyboard/Mouse Broadcast – keyboard and mouse inputs can be duplicated on all the attached servers

- Video syncing with the local console – local console monitor’s EDID information stored on the KVM Adapter Cables for display resolution optimization

Advanced Security

- Remote authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- Supports TLS 1.2 data encryption and RSA 2048-bit certificates to secure users log in from browser
- 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
- IP/MAC Filter for enhanced security protection
- Configurable user and group permissions for server access and control
- Automated CSR creation utility and third party CA certificate authentication

Virtual Media

- Virtual media enables file applications, OS patching, software installation and diagnostic testing
- Works with USB enabled servers in operating system and BIOS level
- Support DVD/CD drives, USB mass storage devices, PC hard drives and ISO images

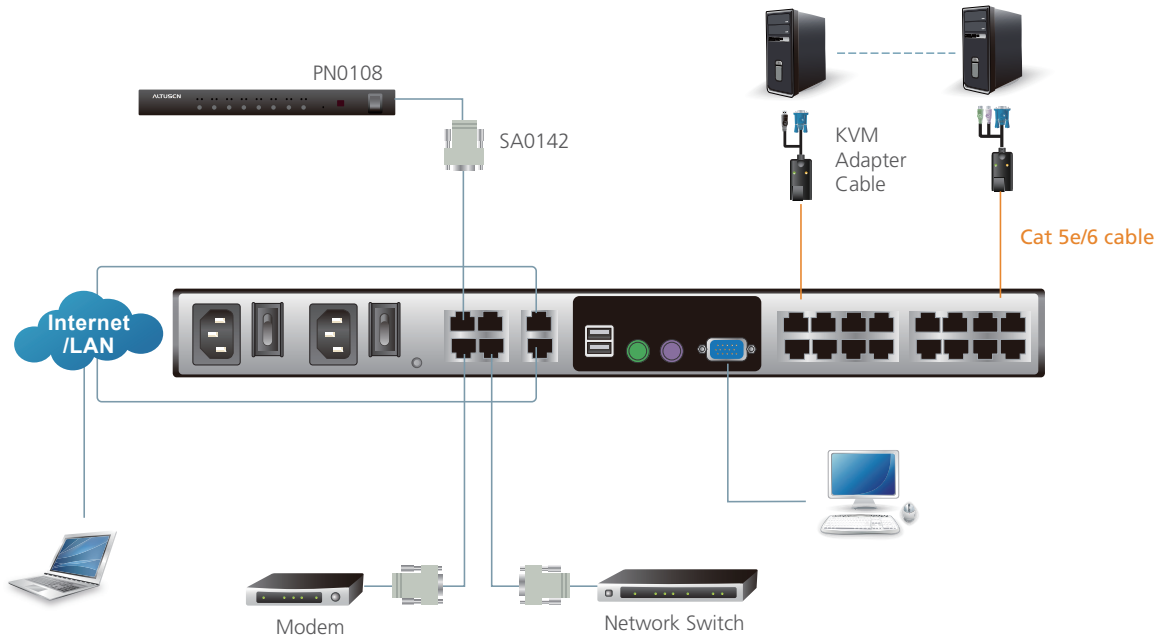
Virtual Remote Desktop

- Video quality and video tolerance can be adjusted to optimize data transfer speed; monochrome color depth setting, threshold and noise settings for compression of the data bandwidth in low bandwidth situations
- Full screen video display or scalable video display
- Message Board for communication among remote users
- Mouse DynaSync™ - automatically synchronizes the local and remote mouse movements
- Keyboard pass through support
- Exit Macros support
- On-screen keyboard with multilanguage support
- BIOS-level access

Benefits

Laptop USB Console (LUC)	A dedicated USB port directly connects to your Laptop for easy console operation.
Power Association	Used in conjunction with ATEN PDUs power management device, you can associate a KVM over IP Switch’s port with a PDU’s power outlet, and then manage the power operation of a server from the switch’s interface – a single interface point. It also enables you to associate a second outlet port if the server has a dual power supply, and lets you synchronize the operation for both power supplies. In this way, Power Association reduces maintenance time and increases management efficiency.
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 and accessed easily.
Improved SNMP Trap	Monitor the critical events on your system and customize the settings according to your needs. Logged events are divided into categories providing clear and complete information to administrators.

Dual IP/Dual Power	Dual IP/ Dual Power supply operation provides the backup redundancy, and reliability. Should one of the IP or one of the power supplies become unavailable, the other will take over in order to keep the system functioning normally.
Magic Panel	A special hideaway control panel with configurable function icon enables you to control and manage the servers more convenient.
Ease-to-use user interface	A user-friendly, intuitive, GUI provides convenient, access, configuration and operation. Local Console , browser-based and AP GUIs offer a unified multilanguage interface to minimize user training time and increase productivity.
Virtual Remote Desktop	The remote desktop can appear full-screen or as a window with a flexible scaling video display. Advanced features such as the Message Board, Mouse DynaSync™, Virtual Media, and Keyboard Pass Through, create a Virtual Remote Desktop that allows users to operate servers from remote locations just as if they were actually at the local site.
Superior Video	With enhanced fps throughput for crisp responsive video display, the switches offer resolutions of up to 1920 x 1200 @ 60Hz.*
Configurable Network Bandwidth settings	A Network setting is provided that allows you to streamline data throughput by adjusting the size of the data stream (bandwidth) to match network traffic conditions. Video performance can be adjusted so that data throughput is optimized for the available network bandwidth. With high speed LAN access, the network setting can be adjusted so that a greater amount of video information is sent, resulting in a higher quality video display. In a limited bandwidth situation, the network setting can be adjusted so that net lag is minimized.
Mouse DynaSync™	Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings.
Panel Array Mode	Panel array mode permits simultaneous monitoring of the video output of the installations' servers. Operators can monitor the screen display of multiple servers for real-time server monitoring.
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.
Adapter ID	The Adapter ID Function stores port information such as the Adapter ID, OS, keyboard language, adapter name, operation modes, and etc. This enables administrators to relocate the servers to different ports, without having to re-configure the adapters and the switches.
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.
Remote Management of KVM and Serial Devices	Combined access fit for data centers and computer rooms with system racks containing both KVM and serial controlled devices.
Secure Serial Server Access	Supports secure access to serial-controlled devices including network equipment, UNIX servers, Linux servers, Sun servers and many more. Plus ATEN's secure serial server access provides installation without needing expensive serial dongles.



KVM Adapter Cables

The following KVM Adapter cables are required for use with the KVM over IP Switches:

	<p>PS/2 KVM Adapter Cable</p> <p>KA9120/KA7120</p>	<p>USB KVM Adapter Cable</p> <p>KA9170/KA7170</p>	<p>Sun Legacy KVM Adapter Cable</p> <p>KA9130/KA7130</p>	<p>Serial KVM Adapter Module</p> <p>KA9140</p>	<p>USB Virtual Media KVM Adapter Cable</p> <p>KA7175</p> <p>Connect to systems with USB 2.0 ports</p>	<p>USB Virtual Media KVM Adapter Cable with Audio</p> <p>KA7176</p> <p>Connect to systems with USB 2.0 ports+Audio</p>
Type:	PS/2	For all USB systems	Sun Legacy	Serial	Connect to systems with USB 2.0 ports	Connect to systems with USB 2.0 ports+Audio
Interface:	<p>6-pin Mini-DIN Male</p> <p>6-pin Mini-DIN Male</p> <p>HDB-15 Male</p>	<p>USB Type A Male</p> <p>HDB-15 Male</p>	<p>13W3 Male</p> <p>DIN 8 pin Male</p>	<p>RS-232 DB-9 Female</p>	<p>USB Type A Male</p> <p>HDB-15 Male</p>	<p>USB Type A Male</p> <p>HDB-15 Male</p> <p>2 Audio plugs</p>
	<p>USB Virtual Media KVM Adapter Cable with Smart Card Reader</p> <p>KA7177</p>	<p>DVI USB Virtual Media KVM Adapter Cable with Smart Card Reader</p> <p>KA7166</p>	<p>HDMI USB Virtual Media KVM Adapter Cable with Smart Card Reader</p> <p>KA7168</p>	<p>DisplayPort USB Virtual Media KVM Adapter Cable with Smart Card Reader</p> <p>KA7169</p>		
Type:	Connect to system with USB 2.0 ports + Smart Card Reader support	Connect to system with USB 2.0 ports + Smart Card Reader support	Connect to system with USB 2.0 ports + Smart Card Reader support	Connect to system with USB 2.0 ports + Smart Card Reader support		
Interface:	<p>USB Type A Male</p> <p>USB Type A Male</p> <p>HDB-15 Male</p>	<p>USB Type A Male</p> <p>USB Type A Male</p> <p>DVI-D Male (Single Link)</p>	<p>USB Type A Male</p> <p>USB Type A Male</p> <p>HDMI Male</p>	<p>USB Type A Male</p> <p>USB Type A Male</p> <p>DisplayPort Male</p>		

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Specifications

Function		KN1108v	KN1116v	
Computer Connections	Direct	8	16	
	Max	128 (via Cascade)	256 (via Cascade)	
Port Selection		Pushbutton, GUI, Hotkey		
Connectors	Console Port	Keyboard 1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (White)		
		Video 1 x HDB-15 Female (Blue)		
		Mouse 1 x 6-pin Mini-DIN Female (Green) 1 x USB Type A Female (White)		
	KVM Ports		8 x RJ-45 Female	16 x RJ-45 Female
	Power		2 x 3-prong AC socket	
	LAN		2 x RJ-45 Female	
	PON		1 x RJ-45 Female	
	Modem		1 x RJ-45 Female	
	Serial		2 x RJ-45 Female	
	USB		3 x USB Type A Female (White)	
Laptop USB Console (LUC) Port		1 x USB Mini Type B Female (Black)		
Audio		2 x Audio Jack Female		
Switches	Reset	1 x Semi-recessed Pushbutton		
	Power	2 x Rocker		
	Port Selection	2 x Pushbutton		
LEDs	On Line	8 (Green)	16 (Green)	
	Power	1 (Blue)		
	Link 10 / 100 / 1000 Mbps	1 (Green / Green / Orange)		
Emulation	Keyboard/Mouse	PS/2 / USB (PC, Mac, Sun) / Serial		
Video	Local	1600 x 1200 @ 60Hz(40m with KVM Adapter Cable KA7000 series); 1920 x 1200* @60Hz(30m) DDC2B		
	Remote	1600 x 1200 @ 60Hz(40m with KVM Adapter Cable KA7000 series); 1920 x 1200* @60Hz(30m) DDC2B		
Scan Interval		1-255 Seconds		
I/P Rating		100-240VAC; 50-60Hz; 1.0A		
Power consumption	Single Power	120V/15W; 230V/16W	120V/15W; 230V/15W	
	Dual Power	120V/17W; 230V/17W	120V/16W; 230V/17W	
Environment	Operating Temp.	0 - 50°C		
	Storage Temp.	-20 - 60°C		
	Humidity	0 - 80% RH, Non-condensing		
Physical Properties	Housing	Metal		
	Weight	3.57 kg	3.60 kg	
	Dimensions (L x W x H)	43.84 x 28.78 x 4.40 cm	43.84 x 28.78 x 4.40 cm	

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