KH1508Ai/KH1516Ai

Cat 5 High-Density KVM Over the NET™

The KH1508Ai/KH1516Ai Cat 5 High-Density KVM Over the NET™ switches offer 8 and 16 computer port configurations in a 1U-high housing for convenient rack mounting. They allow local and remote operators to monitor and access the entire enterprise data center over the Internet using a web-based browser.
The KH1508Ai/KH1516Ai features RJ-45 connectors and Cat 5e/6 cable to link to the computers and supports multiplatform. This ensures that high quality signals can travel over long distance – up to 50m* without the need for KVM extenders. Utilizing KVM Adapter Cables for the final linkup, the KH1508Ai/KH1516Ai permits any combination of PCs, Macs, Sun computers, and serial devices to coexist on the installation.

In addition to TCP/IP connectivity, the KH1508Ai/ KH1516Ai provides console ports for a locally attached USB or PS/2 console and a Laptop USB console (LUC) – allowing access and control from the data center as well as over the Net.

These switches have been designed with unique and powerful features for that enable administrators to manage their entire server room and data center devices easily and conveniently from just about anywhere in the world.

A special Message Board feature – which like an internet chat program – lets any number of remotely logged in users exchange information and communicate with each other or to cooperatively manage the installation. A Panel Array Mode™- allows real-time monitoring of up to 8/16 servers at once. Other features that contribute to the switches' powerful capabilities include: Mouse DynaSync™, and Adapter ID.

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

* With KVM Adapter Cable KA7000 series, please see page 4 for details.

KH1516Ai

Features

Hardware

- High port density – RJ-45 connectors for up to 8/16 ports in a 1U housing
- A dedicated USB port directly connects to a laptop for easy Console operation
- One bus for remote KVM over IP access
- Supports PS/2, USB, Sun Legacy (13W3) and serial (RS-232) connectivity
- Local console provides PS/2 and USB keyboard and mouse support
- Multiplatform support – Windows, Mac, Sun and Linux
- Superior Video Quality – up to 1600 x 1200 @ 60Hz at up to 40 meters and 1280 x 1024 @ 75Hz at up to 50 meters*
- Daisy-chain up to 15 additional units – control up to 128 or 256 computers from a single console

* With KVM Adapter Cable KA7000 series, please see page 4 for details.

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
- Local Log Event
- Adapter ID – stores port information allowing administrators to relocate the servers to different ports, without having to reconfigure the adapters and switch
- Port Share Mode allows multiple users to gain access to a server simultaneously
- Integration with ALTUSEN CC2000 Management software
- Power Over the NET™ integration for remote power control
- Firmware upgradeable
- IPv6 capable

Ease-to-Use Interface

- Local Console, Browser, and AP GUIs offer a unified Multilanguage interface to minimize user training time and increase productivity
- Multiplatform client support (Windows, Mac OS X, Linux, Sun)
- Multibrowser support (IE, Mozilla, Firefox, Safari, Opera, Netscape)
- Browser-based UI in pure Web technology allows administrators to perform administrative tasks without the need for Java to be pre-installed
- Panel Array Mode™
- Keyboard broadcast – keyboard input can be duplicated on all the attached servers

Advanced Security

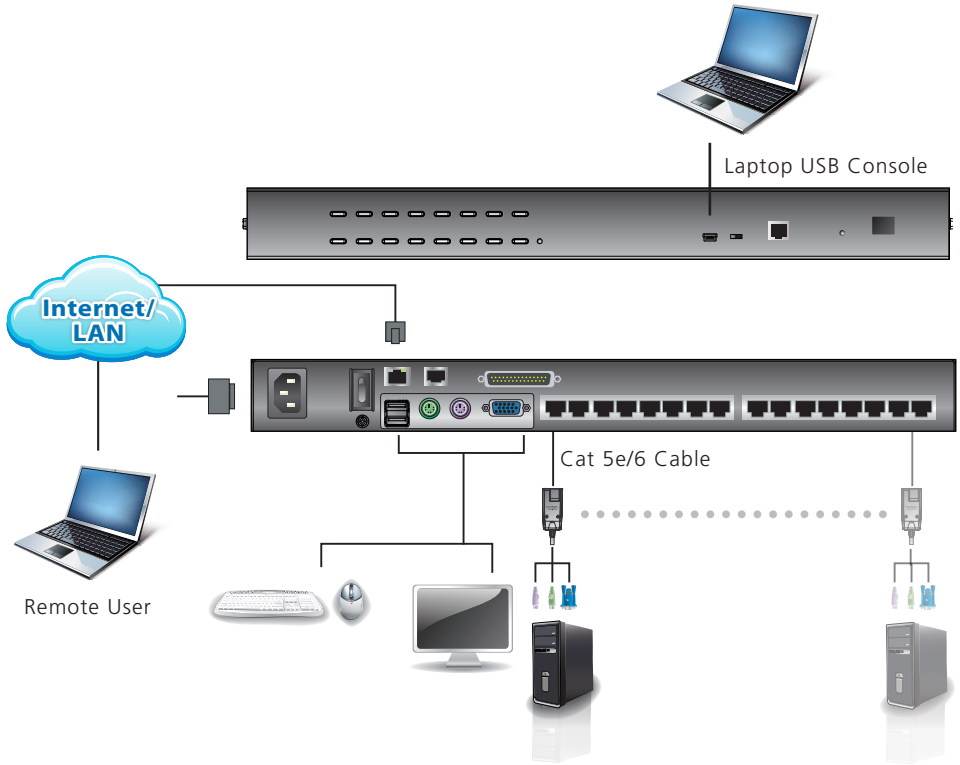
- Remote authentication support: RADIUS, LDAP, LDAPS, and MS Active Directory
- 128-bit SSL encryption to protect password when users log in
- Flexible encryption design allows users to choose any combination of 56- bit DES, 168-bit 3DES 256-bit AES, 128-bit RC4, or Random for independent KB/Mouse, and video data encryption
- IP/MAC Filter IP/MAC Filter for enhanced security protection
- Configurable user and group permissions for server access and control

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 or scalable video display
- Message Board for communication among remote users
- Mouse DynaSync™ – automatically synchronizes the local and remote mouse movements
- On-screen keyboard with multilanguage support
- Exit Macros support
- BIOS-level access

Benefits

Laptop USB Console (LUC)	A dedicated USB port directly connects to your Laptop for easy console operation.
Easy-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.
Superior Video Quality	Supports the video resolutions up to 1600x1200@60Hz for up to 40 meters, and 1280x1024@75Hz for up to 50 meters with the new ATEN KVM Adapter Cable KA7000 series.
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 8/16 servers for real-time server monitoring.
Adapter Cables with ID	The KH1508Ai / KH1516Ai KVM series supports automatic ID recognition of the new ATEN KVM Adapter Cable KA7000 series. Using the new adapter cables with ID means it is not required to change cable configuration settings when moving cables from port to port. Device ID and attributes are stored in the adapter cables allowing you to hot-swap port connections without having to reconfigure attributes.
Mouse DynaSync™	Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings.



Optional

The following KVM Adapter Cables are required for use with the KH1508Ai / KH1516Ai

	KA7120/KA7520 KA9120/KA9520	KA7170/KA7570 KA9170/KA9570	KA7920	KA7970	KA9130/KA7130	KA9140
Type:	**PS/2**	**USB**	**PS/2**	**USB**	**Sun Legacy**	**Serial**
Interface:	6-pin Mini-DIN Male 6-pin Mini-DIN Male HDB-15 Male	USB Type A Male HDB-15 Male	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

Specification

Function			KH1508Ai	KH1516Ai
Computer Connections	Direct		8	16
	Maximum		128 (via daisy chain)	256 (via daisy chain)
Port Selection			OSD; Hotkey ; Pushbutton	
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 Port		8 x RJ-45 Female	16 x RJ-45 Female
	Daisy Chain Ports		1 x DB-25 Male (Black)	
	Power		1 x 3-prong AC socket	
	LAN		1 x RJ-45 Female	
	F/W Upgrade		1 x RJ-11 Female (Black)	
	PON		1 X RJ-45 Female	
	Laptop USB Console (LUC) Port		1 x USB Mini Type B Female (Black)	
Switches	Reset		1 x Semi-recessed Pushbutton	
	Power		1 x Rocker	
	Port Selection		8 x Pushbutton	16 x Pushbutton
LEDs	On Line		8 (Green)	16 (Green)
	Selected		8 (Orange)	16 (Orange)
	Power		1 (Blue)	
	Station ID		1 x 2-digit 7-segment (Orange)	
	Link		1 (Orange)	
	10 / 100Mbps		1 (Orange / Green)	
Emulation	Keyboard/Mouse		PS/2, USB	
Video	Local		1600 x 1200 @ 60 Hz (40m) ;1280 x 1024 @ 75 Hz (50 m with KA7xx Adapter Cable)	
	Remote		1600 x 1200 @ 60Hz	
Scan Interval			1–255 secs	
I/P Rating			100–240 VAC; 50/60 Hz; 1A	
Power Consumption			120V/12.5W; 230V/12.7W	
Environment	Operating Temp.		0–50° C	
	Storage Temp.		-20–60° C	
	Humidity		0–80% RH; Non-condensing	
Physical Properties	Housing		Metal	
	Weight		2.80 kg	
	Dimensions (L x W x H)		43.70 x 16.10 x 4.40 cm (19"/1U)	

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