ALTUSEN™
Enterprise KVM Solutions by ATEN

KH1508/KH1516 Cat 5 High-Density KVM Switch

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1 Package Contents

The KH1508 / KH1516 package consists of:

- 1   KH1508 or KH1516 Cat 5 High-Density KVM Switch
- 1   Firmware Upgrade Cable
- 1   Power Cord
- 1   Rack Mount Kit (brackets and Phillips hex M3X8 screws)
- 1   Foot Pad Set (4 pcs.)
- 1   User Manual
- 1   Quick Start Guide

2-1 Requirements

Console
- A VGA, SVGA, or multisync monitor capable of the highest resolution that you will be using on any computer in the installation.
- A PS/2 style mouse
- A PS/2 style keyboard

Computers
The following equipment must be installed on the computers that connect to the KH1508 or KH1516's KVM ports:
- A VGA, SVGA or multisync port
- A Type A USB port and USB host controller (for USB KVM Adapter Cable Connection, see below)
- 6-pin mini-DIN keyboard and mouse ports (for PS/2 KVM Adapter Cable Connection, see below)
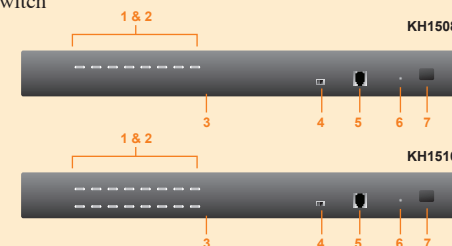

2-2 Requirements

KVM Adapter Cables (CPU Modules)
- Cat 5e/6 cable is required to connect the KH1508 / KH1516 to one of the KVM Adapter Cables.
- The following KVM Adapter Cables are required for use with the KH1508 / KH1516:

Function	Module
Connect to devices with PS/2 ports	KA9520
Connect to devices with USB ports	KA9570
Connect to Sun Legacy systems (with 13W3 port)	KA9130
Connect to Sun USB systems	KA9170
Connect to serial based devices	KA9140

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3 The KH1508 / KH1516 Unit (Front View)

1. Port Selection Switches
2. Port LEDs
3. Reset Switch
4. Firmware Upgrade Recovery Switch
5. Firmware Upgrade Port
6. Power LED
7. Station ID LED

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4 The KH1508 / KH1516 Unit (Rear View)

1. Power Socket
2. Power Switch
3. Daisy Chain Ports
4. Local Console Port Section
5. KVM Port Section

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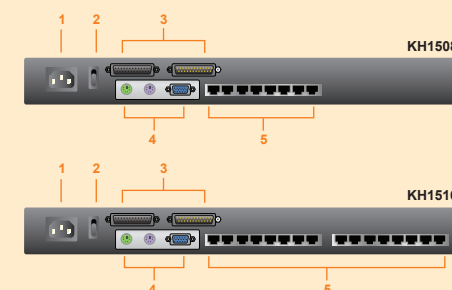
5 Hardware Installation 1

Rack Mounting
The KH1508 / KH1516 can be mounted in a 19" (1U) racks. The mounting brackets can screw into either the front or the back of the unit so that it can attach to the front or the back of the rack. To rack mount the unit:
1. Remove the screws at the front or the rear, as shown in the diagram below.
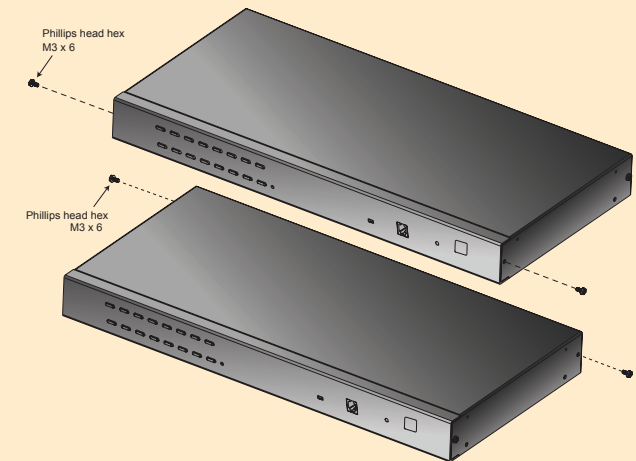
2. Screw the mounting brackets into the sides of the unit at the front or the rear, as shown in the diagram below.
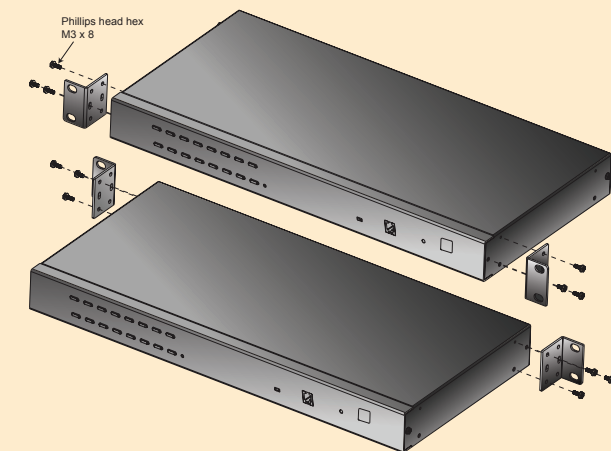
3. Slide the unit into the front or rear of the rack and secure it to the rack.

Hardware Installation 2

Single Station Installation

1. Plug your Local Console's keyboard, monitor, and mouse into the unit's Console Ports. Each port is color coded and marked with an appropriate icon to identify itself.
2. Use Cat. 5e/6 cable to connect any available KVM port to a KVM Adapter Cable that is appropriate for the computer you are installing.
   Note: : The KH1508 / KH1516 does not support distances between itself and the KVM Adapter Cable that exceed 40 m.
3. Connect the KVM Adapter Cable to the computer. Plug the connectors on the KVM Adapter Cable into the appropriate ports of the computer you are installing.
4. Plug the female end of the power cord into the KH1508 / KH1516's Power Socket; plug the male end into an AC power source.
5. Turn on the power to the KH1508 / KH1516.
After the KH1508 / KH1516 is powered up, you can turn on the computers.
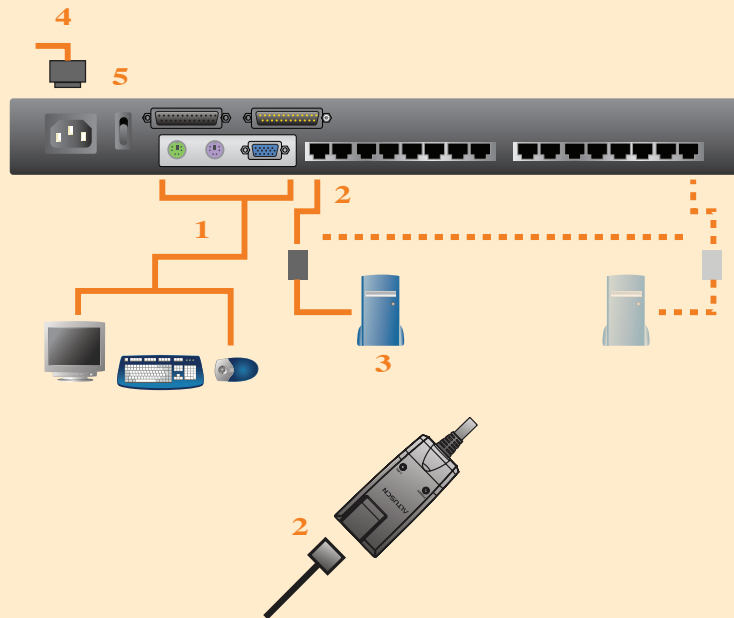
Operation 1

Port Selection
KH1508 / KH1516 installations provide three methods to obtain instant access to any computer in your installation: Manual, OSD, and Hotkey.

Hot Plugging
The KH1508 / KH1516 supports hot plugging – components can be removed and added back into the installation by unplugging and replugging their cables from the ports without the need to shut the unit down.

Powering Off and Restarting
If it becomes necessary to power off one of the KH1508 / KH1516 units, please shut down all the computers that are attached to it. And wait 10 seconds then power it back on. After the station(s) is (are) up, power the computers back on.

Port ID Numbering
Each computer on the installation is assigned a unique Port ID. The Port ID is one or two segment number that is determined by the Stage Level and KVM Port number of the KVM switch that the computer is connected to.
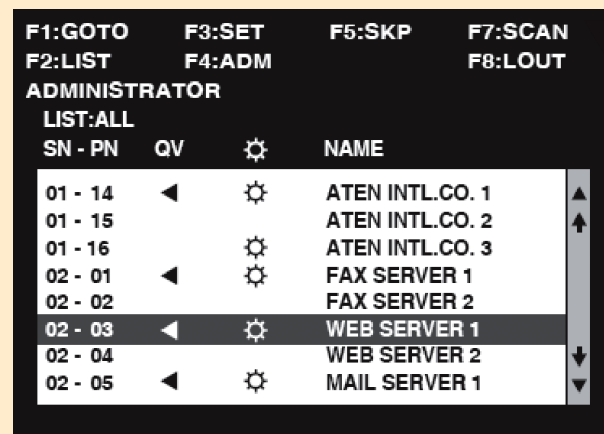
Operation 2

OSD Operation
1. To invoke the OSD Main Menu, tap the [Scroll Lock] key twice.
2. The OSD incorporates a two level (Administrator / User) password system. If this is the first time that the OSD is being run, or if the password function has not been set, simply press [Enter].
3. The OSD Main Screen comes up in Administrator Mode. In this mode, you have administrator privileges, with access to all Administrator and User functions, and can set up operations, as you would like.

When you invoke the OSD, a screen similar to the one below appears:

F1:GOTO	F3:SET	F5:SKP	F7:SCAN
F2:LIST	F4:ADM		F8:LOUT

ADMINISTRATOR
LIST:ALL

SN - PN	QV	☼	NAME
01 - 14	◄	☼	ATEN INTL.CO. 1
01 - 15			ATEN INTL.CO. 2
01 - 16		☼	ATEN INTL.CO. 3
02 - 01	◄	☼	FAX SERVER 1
02 - 02			FAX SERVER 2
02 - 03	◄	☼	WEB SERVER 1
02 - 04			WEB SERVER 2
02 - 05	◄	☼	MAIL SERVER 1

4. OSD Port Selection --To bring the KVM focus to a port, Double Click it, or move the Highlight Bar to it then press [Enter].

Operation 3

Hotkey Operation
To invoke Hotkey Setting Mode (HSM), do the following:
1. Press and hold down the [Num Lock] key
2. Press and release the Minus [-] key
3. Release the [Num Lock] key

Hotkey summary table:
After invoking Hotkey Setting Mode, key in one of the following keys to perform the corresponding function:

Key	Function
[Port ID] [Enter]	Switches access to the computer that corresponds to that Port ID.
[T] [n] [Enter]	Sets the Auto Scan interval to n seconds - where n is a number from 1 - 255.
[A]	Invokes Auto Scan Mode.
[←] or [→] or	Invokes Skip Mode and Switches computer access depending on
[↑] or [↓]	which Arrow was pressed.
[B]	Toggles the Beeper On or Off.

Specifications

Function			KH1508	KH1516
Computer Connections	Direct		8	16
	Max.		256 (via Daisy Chain)	512 (via Daisy Chain)
Port Selection			OSD; Hotkey; Pushbutton	
Connectors	Console Ports	Keyboard	1 x 6-pin Mini-DIN Female (Purple)	
		Video	1 x HDB-15 Female (Blue)	
		Mouse	1 x 6-pin Mini-DIN Female (Green)	
	KVM Ports		8 x RJ-45 Female	16 x RJ-45 Female
	Daisy Chain Ports	In	1 x DB-25 Female (Black)	
		Out	1 x DB-25 Male (Black)	
	F/W Upgrade		1 x RJ-11 Female (Black)	
	Power		1 x 3-prong AC Socket	
Switches	Port Selection		8 x Pushbutton	16 x Pushbutton
	Reset		1 x Semi-recessed pushbutton	
	F/W Upgrade		1 x Slide	
	Power		1 x Rocker	
LEDs	On Line		8 (Green)	16 (Green)
	Selected		8 (Orange)	16 (Orange)
	Power		1 (Blue)	
	Station ID		2 x 7-segment (Orange)	
Emulation	Keyboard / Mouse		PS/2;USB(PC,Mac,Sun);Serial	
Video			1600 x 1200 @60Hz (30m); 1280 x 1024@60Hz (40m)	
Scan Interval			1–255 Seconds	
I/P Rating			100–240VAC; 50/60 Hz; 1A	
Power Consumption			120V/15.5W; 230V/15.5W	120V/15.7W; 230V/15.7W
Environment	Operating Temp.		0–40°C	
	Storage Temp.		-20–60°C	
	Humidity		0–80% RH, Non-condensing	
Physical Properties	Housing		Metal	
	Weight		2.75 Kg	
	Dimensions		43.72 x 16.10 x 4.40 cm (19" /1U)	

All specifications are subject to change without notice.