

### KH1508A/KH1516A Cat 5 High-Density KVM Switch **Quick Start Guide**

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# **Package Contents**

1 KH1508A or KH1516A Cat 5 High-Density KVM Switch 1 Firmware Upgrade Cable 1 Power Cord

1 Mounting Kit 1 Foot Pad Set (4 pcs.) 1 User Instructions

**Online Registration** http://ese

International: • 886-2-8692-6959

China: • 86-10-5255-0110

Japan: • 81-3-5615-5811

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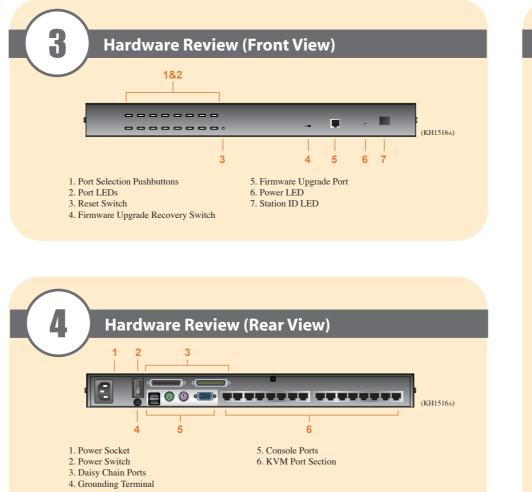
CE

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### Important Notice

Considering environmental protection, ATEN may not provide a fully printed user manual for this product. If the information contained in the Quick Start Guide is not enough for you to configure and operate your product, please visit our website www.aten.com, and download the full user manual.



Note: The front and rear panel views are similar for the KH1508A, the difference being that the KH1508A has only one row of LED lights (front) and one row of CPU ports (rear)

**Hardware Installation** 

**Rack Mounting** 



# 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 or USB mouse
- A PS/2 or USB keyboard

### Computers

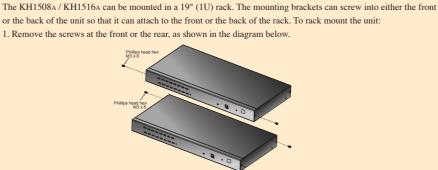
The following equipment must be installed on the computers that connect to the KH1508A or KH1516A KVM ports:

- A VGA, SVGA or multisync port
- A Type A USB port and USB host controller (for USB KVM adapter cable connection, see following section) - or -
- 6-pin Mini-DIN keyboard and mouse ports (for PS/2 KVM adapter cable connection, see following section)

# **KVM Adapter Cables**

- Cat 5e/6 cable is required to connect the KH1508A / KH1516A to one of the KVM adapter cables.
- The following KVM adapter cables are required for use with the KH1508A / KH1516A:

Function	Module
Connect to devices with PS/2 ports	KA7920 / KA7520 / KA7120 / KA9520 / KA9120
Connect to devices with USB ports	KA7970 / KA7570 / KA7170 / KA9570 / KA9170
Connect to Sun Legacy systems (with 13W3 port)	KA9130 / KA7130
Connect to Sun USB systems	KA9170 / KA7170
Connect to serial based devices	KA9140



2. Screw the mounting brackets into the sides of the unit at the front or the rear, as shown in the diagram below.

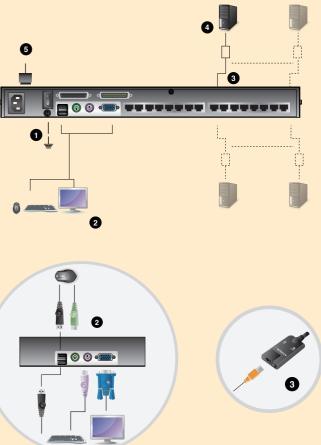


3. Slide the unit into the front or rear of the rack and secure it to the rack.

# **Single Station Installation** electricity. marked with icons for easy identification. keyboard with a USB mouse.

computer you are installing. KVM adapter cable is 50 meters. appropriate ports of the computer you are installing. AC power source.

servers.







# Hardware Installation

1. Ground the KH1508A / KH1516A by connecting one end of the grounding wire to the grounding terminal, and the other end of the wire to a suitable grounded object.

Note: Do not omit this step. Proper grounding helps to prevent damage to the unit from surges or static

2. Plug the console keyboard, monitor, and mouse into the unit's console ports. The ports are color coded and

Note: You can use any combination of keyboard and mouse connections. For example, you can use a PS/2

3. Use Cat 5e/6 cable to connect any available KVM port to a KVM adapter cable that is appropriate for the

Note: To support a resolution of 1280x1024, the recommended maximum distance between the unit and the

4. Connect the KVM adapter cable to the computer. Plug the connectors on the KVM adapter cable into the

5. Plug the female end of the power cord into the KH1508A / KH1516A's power socket; plug the male end into an

After the KH1508A / KH1516A is cabled up, you can turn on the power. After it is powered up, you can turn on the



# Operation

# **Port Selection**

KH1508A / KH1516A installations provide three methods to obtain instant access to any computer on your installation: Manual, OSD (on-screen display), and Hotkey.

# Manual

Manual port selection simply involves pressing the port selection switch that corresponds to the device you wish to access.

# OSD

The On Screen Display (OSD) is a menu driven method to handle computer control and switching operations. All procedures start from the OSD Main Screen. To display the Main Screen, tap the OSD hotkey twice. The default hotkey is [Scroll Lock]. You can change the hotkey to the Ctrl key or the Alt key if you like.

The OSD incorporates a two level (administrator / user) password system. Before the OSD Main Screen comes up, a login dialog box appears requesting a username and password. You must provide a valid username and password in order to continue. The first time that the OSD is accessed, you must use the default username and password. The default username is **administrator**; the default password is **password**. For security purposes, we strongly recommend changing these to something unique after you log in for the first time. After logging in with the default username and password, the OSD Main Screen opens in Administrator mode as below.

	F4: FA1	ADM	F5:SKP F7:SCAN® 1 F6:BRC F8:LOUT <sub>≠</sub> 2
SN PN		¢	NAME
01 02 03 04 05 06 ::07	٩	Ø <sub>1</sub> :	MAILSERVER1 RADIUS MID-9520-1 MID MAILSERVER2 LDAP EIRP

To bring the KVM focus to a port, double-click it, or move the highlight bar to it and then press [Enter].

# Hotkey

Hotkeys allow you to conveniently provide KVM focus to a particular computer from the keyboard instead of having to manually select them by pressing port selection switches, or accessing the OSD.

# **Invoking Hotkey Mode**

 Number Lock and Minus Keys (Default)

 1. Hold down the Num Lock key;

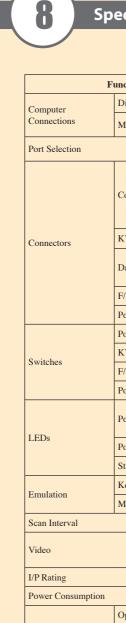
 2. Press and release the minus key;

 3. Release the Num Lock key:

 [Num Lock] + [-]

Control and F12 Keys (Alternate) 1. Hold down the Ctrl key; 2. Press and release the F12 key; 3. Release the Ctrl key: [Ctrl] + [F12]

[A] [Enter]         Invokes Auto Scan mode. When Auto Scan mode is in effect, [P] or left-click pauses auto-scanning. When auto-scanning is paused, pressing any key or another left-click resumes auto-scanning.           [B]         Toggles the Beeper On or Off.           [Esc] or [Spacebar]         Exits hotkey mode.           [F1]         Sets Operating System to Windows           [F2]         Sets Operating System to Mac           [F3]         Sets Operating System to Sun           [F5]         Performs a keyboard / mouse reset on the target computer.           [H]         Toggles the Hotkey invocation keys.           [Port ID] [Enter]         Switches access to the computer that corresponds to that Port ID.           [R] [Enter]         Administrator only hotkey. It returns the switch's settings to their default values.           [T]         Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock]. [Scroll Lock].           [+-]         Invokes Skip Mode and skips from the current port to the first accessible port.           [+]         Invokes Skip Mode and skips from the current port to the first accessible port.			
[Exc] or [Spacebar]       Exits hotkey mode.         [F1]       Sets Operating System to Windows         [F2]       Sets Operating System to Mac         [F3]       Sets Operating System to Sun         [F3]       Sets Operating System to Sun         [F5]       Performs a keyboard / mouse reset on the target computer.         [[KII]]       Toggles the Hotkey invocation keys.         [Port ID] [Enter]       Switches access to the computer that corresponds to that Port ID.         [R] [Enter]       Administrator only hotkey. It returns the switch's settings to their default values.         [T]       Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock].         [I+-]       Invokes Skip Mode and skips from the current port to the first accessible port.         [I]       Invokes Skip Mode and skips from the current port to the last accessible port.         [I]       Invokes Skip Mode and skips from the current port to the last accessible port.		[A] [Enter]	When Auto Scan mode is in effect, [P] or left-click pauses auto-scanning. When auto-scanning is paused, pressing any key or
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[Num Lock] + [-] or       [F3]       Sets Operating System to Sun         [F5]       Performs a keyboard / mouse reset on the target computer.         [Ctrl] + [F12]       [H]       Toggles the Hotkey invocation keys.         [Port ID] [Enter]       Switches access to the computer that corresponds to that Port ID.         [R] [Enter]       Administrator only hotkey. It returns the switch's settings to their default values.         [T]       Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock].         [←]       Invokes Skip Mode and skips from the current port to the next accessible port, previous to it.         [→]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.         [↓]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[F1]	Sets Operating System to Windows
[Num Lock] + [-] or       [F5]       Performs a keyboard / mouse reset on the target computer.         [Ctrl] + [F12]       [H]       Toggles the Hotkey invocation keys.         [Port ID] [Enter]       Switches access to the computer that corresponds to that Port ID.         [R] [Enter]       Administrator only hotkey. It returns the switch's settings to their default values.         [T]       Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock] [Scroll Lock].         [←]       Invokes Skip Mode and skips from the current port to the first accessible port previous to it.         [→]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.         [↓]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[F2]	Sets Operating System to Mac
[Num Lock] + [-] or       [F5]       computer.         [Ctrl] + [F12]       [H]       Toggles the Hotkey invocation keys.         [Port ID] [Enter]       Switches access to the computer that corresponds to that Port ID.         [R] [Enter]       Administrator only hotkey. It returns the switch's settings to their default values.         [T]       Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock].         [←]       Invokes Skip Mode and skips from the current port to the first accessible port previous to it.         [→]       Invokes Skip Mode and skips from the current port to the next accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[F3]	Sets Operating System to Sun
[Ctrl] + [F12]       [H]       Toggles the Hotkey invocation keys.         [Port ID] [Enter]       Switches access to the computer that corresponds to that Port ID.         [R] [Enter]       Administrator only hotkey. It returns the switch's settings to their default values.         [T]       Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock] [Scroll Lock].         [←]       Invokes Skip Mode and skips from the current port to the first accessible port previous to it.         [→]       Invokes Skip Mode and skips from the current port to the last accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[F5]	
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[K] [Enter]       settings to their default values.         [T]       Toggles the OSD Hotkey between [Ctrl] [Ctrl] and [Scroll Lock] [Scroll Lock].         [←]       Invokes Skip Mode and skips from the current port to the first accessible port previous to it.         [→]       Invokes Skip Mode and skips from the current port to the next accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port.         [↓]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[Port ID] [Enter]	· · ·
[1]       [Scroll Lock] [Scroll Lock].         [←]       Invokes Skip Mode and skips from the current port to the first accessible port previous to it.         [→]       Invokes Skip Mode and skips from the current port to the next accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.         [↓]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[R] [Enter]	
[→]       the first accessible port previous to it.         [→]       Invokes Skip Mode and skips from the current port to the next accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.         [↓]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.		[T]	
[-]       the next accessible port.         [↑]       Invokes Skip Mode and skips from the current port to the last accessible port of the previous Station.         [↓]       Invokes Skip Mode and skips from the current port to		[←]	
the last accessible port of the previous Station.		[→]	
		[1]	
		[↓]	



	Environment				
				Physical Properties	1
					1

# Hotkey Summary Table

# Specification

iction		KH1508A KH1516A		
Direct		8	16	
/lax.		256 (via Dainy Chain)	512 (via Dainy Chain)	
		(via Daisy Chain) OSD (On Scr	(via Daisy Chain) een Display);	
		Hotkeys; P		
	Keyboard	1 x 6-pin Mini-DIN Female (Purple) 1 x USB Type A Female (White)		
Console	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	
De inter Cherin	In	1 x DB-25 Female (Black)		
Daisy Chain	Out	1 x DB-25 Male (Black)		
W Upgrade	;	1 x RJ-11 Fe	emale (Black)	
ower		1 x 3-Prong AC socket		
Port Selection	n	8 x Pushbutton	16 x Pushbutton	
KVM Reset		1 x Recessed pushbutton		
W Upgrade	;	1 x Slide		
Power		1 x Rocker		
)	On Line	8 (Green)	16 (Green)	
ort	Selected	8 (Orange)	16 (Orange)	
Power		1 (Blue)		
tation ID		1 x 2 Digit 7-segment (Orange)		
Keyboard		PS/2; USB		
Aouse		PS/2; USB		
		1–255 sec.		
		1600 x 1200 @ 60Hz (40 m with KA7xx Adapter Cable) 1280 x 1024 @ 75Hz (50 m with KA7xx Adapter Cable)		
		100-240 VAC; 50/60 Hz; 1A		
		120V/5.8W; 230V/6W	120V/5.9W; 230V/6.1W	
Operating Te	mp.	0–40o C		
torage Temp.		-20–600 C		
Iumidity		0-80% RH, Non-condensing		
Iousing		Metal		
Veight		2.74 kg	2.77 kg	
Dimensions(L x W x H)		43.30 x 16.00 x 4.40 cm		