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Enterprise Solutions by ATEN

KL9108 Dual Rail LCD KVM Switch Quick Start Guide
KL9116 Dual Rail LCD KVM Switch Quick Start Guide

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1 Package Contents

The KL9108 / KL9116 package consists of:
1 KL9108 or KL9116 Dual Rail LCD KVM Switch with Standard Rack Mount Kit
2 Custom KVM Cable Sets
1 Power Cord
1 User Instructions

Optional Equipment
Depending on any optional equipment that you may have purchased, one of the following may be included in your package:
• Standard Rack Mount Kit - Long
• Easy Installation Rack Mount Kit - Short
• Easy Installation Rack Mount Kit - Long

2 Requirements

External Console
• A VGA, SVGA, or multisync monitor capable of displaying the highest resolution provided by any computer in the installation
• PS/2 keyboard and mouse

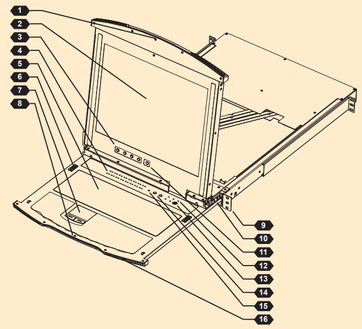
Computers
The following equipment must be installed on each computer:
• A VGA, SVGA or multisync video graphics card with an HDB-15 port
• PS/2 mouse and keyboard ports (6-pin Mini-DIN)

Remote Computers
• For best results, computers that remotely access the KL9108 / KL9116 should have at least a P III 1 GHz processor, with their screen resolution set to 1024 x 768.
• Users who want to access the KL9108 / KL9116 with the Windows Client must have DirectX 7.0 or higher installed.
• If you don't already have it, DirectX is available for free download from Microsoft's web site: http://www.microsoft.com/downloads.
• Users who want to access the KL9108 / KL9116 with the Java Client must have Sun's Java 2 (1.4.2 or higher) runtime environment installed. Java is available for free download from the Sun Java website:http://java.sun.com.
• Browsers must support 128-bit SSL encryption.
• For best results, a network transfer speed of at least 128 Kbps is recommended.

Cables
Use ATEN's high-quality, custom cables to ensure reliable switching among computers and daisy chained switches.

3 KL9108/KL9116 Unit (Front View)

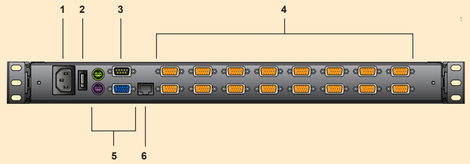
1. Upper Handle
2. LCD Display
3. LCD Controls
4. Port LEDs
5. Keyboard
6. Keyboard Release Catch
7. Touchpad
8. Lower Handle
9. Rack Mounting Tabs
10. LCD Release Catch
11. LCD On/Off Button
12. Lock LEDs
13. External Mouse Port
14. Port Selection Area
15. Reset Switch
16. Power LED



4 KL9108/KL9116 Unit (Rear View)

1. Power Socket
2. Power Switch
3. PON Port
4. KVM Ports (CPU Ports)
5. External Console Section
6. LAN Port

Note: For the sake of brevity only the KL9116 is pictured here. The front and rear panel views are similar for the KL9108.

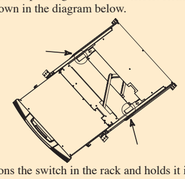


5 Hardware Installation 1

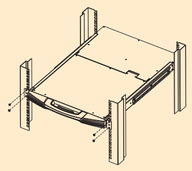
Standard Rack Mounting
A standard rack mounting kit is provided with your KL9108/KL9116. The kit enables the switch to be mounted in rack with a depth of 42 - 77 cm.

Note:
1. It takes two people to mount the switch: one to hold it in place; the other to screw it in.
2. Optional mounting kits - including single person Easy Installation kits – are available with a separate purchase.
3. The standard rack mounting kit does not include screws or cage nuts. If you need additional screws or cage nuts, contact your rack dealer

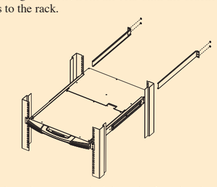
1. Packing material has been inserted to protect the KL9108/KL9116 during shipping. Slide the LCD module out until the packing material is visible. Remove the packing material before installing the unit, as shown in the diagram below.



2. While one person positions the switch in the rack and holds it in place, the second person loosely screws the front brackets to the rack.



3. While the first person still holds the switch in place, the second person slides the L brackets into the switch's side mounting brackets, from the rear until the bracket flanges contact the rack, then screws the L brackets to the rack.

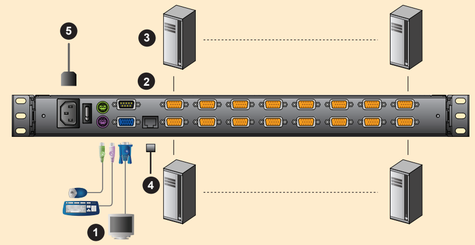


4. After the L brackets have been secured, tighten the front bracket screws.

6 Hardware Installation 2

1. (Optional) Connect the external console's monitor, keyboard, and mouse to the console ports on the rear panel of the KVM switch.
2. Using a KVM cable set, plug the custom SPHD connector into any available KVM port on the switch.
3. At the other end of the cable, plug the keyboard, mouse and video cables into their respective ports on the computer.
   Repeat steps 2 and 3 for any additional computers you are installing.
4. Plug the LAN, WAN or Internet cable into the KL9108 / KL9116's RJ-45 socket.
5. Connect the power cord to the switch and to an AC power source appropriate for the KL9108 / KL9116.
6. Power on the switch.
7. After the switch is powered on, power on the computers.

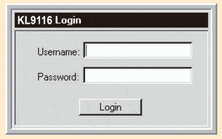
Note: Although the KL9116 is pictured in the diagram, the installation process is the same for the KL9108.



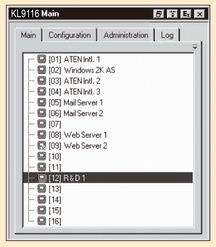
7 Administrator Setup

Once the KL9108 / KL9116 has been installed, the next step that the Administrator needs to perform is to set up the unit for user operation. The most convenient way to do this for the first time is from the local console.

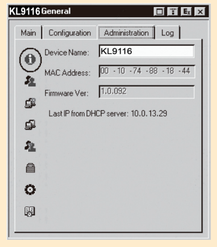
After the KL9108 / KL9116 turned on, a login prompt appears on the console monitor: Since this is the first time you are logging in, use the default Username: **administrator**; and the default Password: **password**.



After you successfully log in, the Local Console OSD appears:



The OSD consists of four pages, each with a specific set of functions: Main, Configuration, Administration, and Log.
1. **The Main page** governs port access. Selecting a port and double-clicking it switches you to the device on that port.
2. **The Configuration Page** sets the operating parameters for each user.
3. **The Log Page** brings up the contents of the log file.
4. **The Administration Page:**
   When you click the Administration tab, the Administration page comes up. Each of the administrative functions is represented by an icon at the left of the page.



General	The General Page presents four items of information: Device Name, MAC Address, Firmware Ver, Last IP from DHCP Server.
User Management	The User Management dialog box is used to create, delete and manage user profiles. Up to 64 user profiles can be established.
Service Configuration	**Access Port** As a security measure, if a firewall is being used, the Administrator can specify the port numbers that the firewall will allow, and set the firewall accordingly. Users must specify the port number when they log in to the KL9108 / KL9116. If an invalid port number (or no port number) is specified, the KL9108 / KL9116 will not be found. **Log Server** In this panel, you specify the MAC address and a port number for the computer that the Log Server resides on.
Network	The Network dialog is used to specify the KL9108 / KL9116's network environment. **IP Address** The KL9108 / KL9116 can either have its IP address assigned dynamically (DHCP), or it can be given a fixed IP address. **DNS Server** You can set the KL9108 / KL9116 to automatically obtain the DNS server address, or you can specify the primary and alternate DNS servers' addresses.
RADIUS	If you are using a RADIUS server, RADIUS Configuration allows you to set up its parameters.
Security	The Security page controls access to the KL9108 / KL9116.
Customization	The Customization dialog box is arranged in four major sections: Login Failures, Working Mode, I/O, and Miscellaneous.
Date/Time	The Date/Time dialog box lets the Administrator set up the KL9108 /KL9116's time parameters:

8 Operation

An On Screen Display (OSD) interface governs KL9108 / KL9116 computer control and switching operations. The OSD can be accessed remotely with a Windows-based client or a Java-based client. You must log in via an Internet browser to connect to the KL9108 / KL9116 and to invoke the OSD.

To log in from an Internet browser:
1. Open the browser and specify the IP address of the KL9108 / KL9116 in the URL bar.
   Note: If you don't know the IP address, get it from the KL9108 / KL9116 administrator.
2. When the Security Alert dialog box appears, accept the certificate.
3. A login page appears



4. Provide a valid Username and Password (set up by the KL9108 / KL9116 administrator), then Click Login to continue.

After you have successfully logged in, the KL9108 / KL9116 Main Webpage appears with the General dialog box displayed. You can click the Windows Client button (or Java Client button) to activate the browser-based Windows Client OSD (or Java Client OSD).

Mouse Setup

The following mouse setting procedures should be performed on each computer connected to the KL9108/KL9116.

Windows Systems:
Note: You must use the generic mouse driver supplied with Windows.
* XP / Server 2003 -- middle position; Enhance pointer precision: off
* 2000 / ME -- Mouse motion: middle position; Acceleration: off
* NT / 98 / 95 -- Mouse speed: slowest

Sun / Linux Systems:
Open a terminal session and issue the following command:
* Sun: xset m 1
* Linux: xset m 0

9 Specifications

Function			KL9108	KL9116
Computer Connections	Direct		8	16
	Max.		64 (via Cascade)	128 (via Cascade)
Console Connections	Local		1	
	Remote		1	
Port Selection			OSD, Hotkey, Pushbutton	
Connectors	External Console Port	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 Port		8 x SPHD-15 Female (Yellow)	16 x SPHD-15 Female (Yellow)
	External Mouse		1 x 6-pin Mini-DIN Female (Green)	
	Power		1 x 3-prong AC Socket	
	LAN		1 x RJ-45 Female (Black)	
	PON		1 x DB-9 Male (Black)	
Switches	Reset		1 x Semi-recessed Pushbutton	
	Port Selection		2 x Pushbutton	
	Power		1 x Rocker	
	LCD Power		1 x Pushbutton	
	LCM Adjustment		4 x Pushbutton	
LEDs	On Line		8 (Green)	16 (Green)
	Selected		8 (Orange)	16 (Orange)
	Power		1 (Blue)	
	Num Lock		1 (Green)	
	Caps Lock		1 (Green)	
	Scroll Lock		1 (Green)	
	Link		1 (Green)	
	10 / 100 Mbps		1 (Orange/Green)	
Emulation	Keyboard/Mouse		PS/2	
Video	17" LCD		1280 x 1024@75Hz; DDC2B	
	Remote		1600 x 1200@60Hz; DDC2B	
Scan Interval			1–255 Seconds	
I/P Rating			100–240V AC; 50/60 Hz; 1A	
Power Consumption			120V/31W; 230V/39W	
Environment	Operating Temp.		0–40°C	
	Storage Temp.		-20–60°C	
	Humidity		0–80% RH, Non-condensing	
Physical Properties	Housing		Metal	
	Weight		17.10 kg	17.30 kg
	Dimensions (L x W x H)		70.50 x 48.20 x 4.40 cm	

All specifications are subject to change without notice.