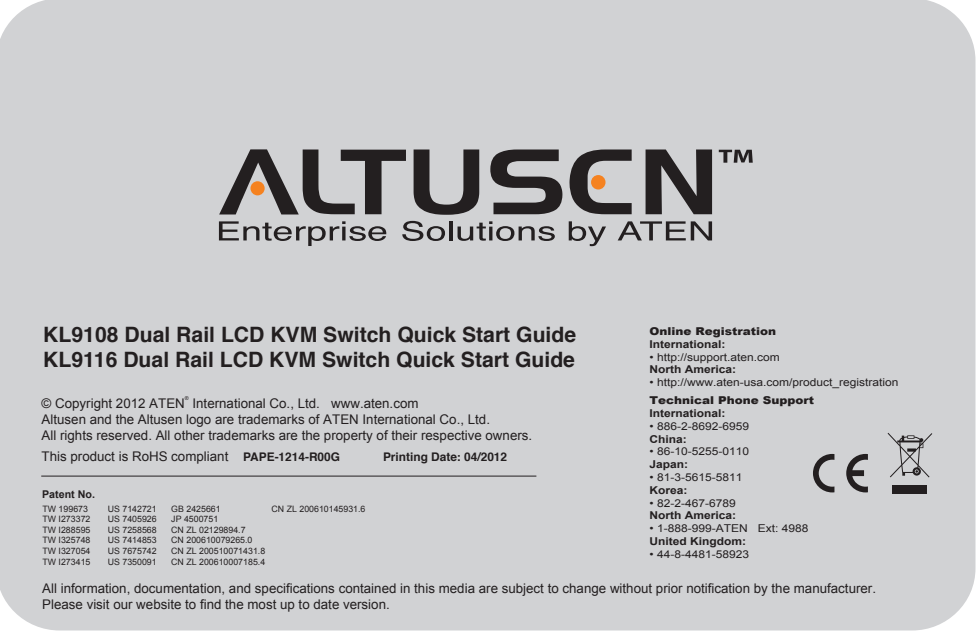




1 Package Contents

The KL9108 / KL9116 package consists of:

- 1 KL9108 or KL9116 Dual Rail LCD KVM Switch with Standard Rack Mount Kit
- 2 Custom KVM Cable Set
- 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.

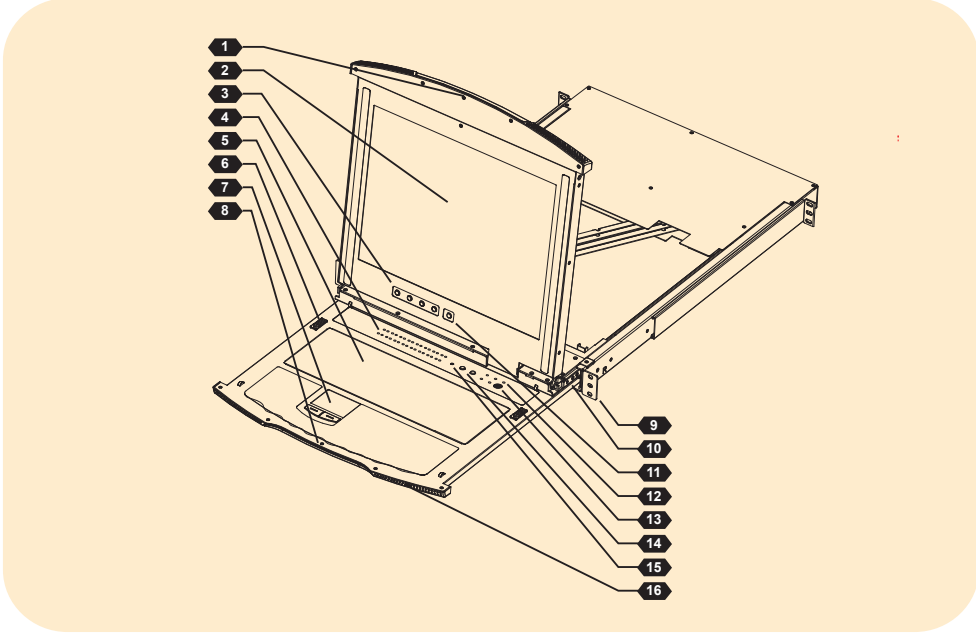
Cables

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

The diagram shows the front view of a rectangular electronic device. It features a central display area with a black bezel and a silver-colored frame. The device has a top handle, a touchpad, and various ports and buttons. The components are numbered 1 through 16.

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
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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.

A perspective view of the LCD module being inserted into a rack. Two arrows point to the front of the module, indicating where to slide it out to remove the packing material.

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.

A perspective view of the LCD module being inserted into a rack. The module is shown partially inside the rack, with arrows indicating the direction of insertion.

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.

A perspective view of the LCD module in the rack. Two L-brackets are shown being slid into the side mounting brackets of the module. Arrows indicate the direction of sliding and the location of the screws.

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.

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

The diagram illustrates the hardware installation of a KVM switch. A central horizontal KVM switch unit is shown with various ports on its rear panel. Five numbered steps are indicated by circles and arrows:

- Step 1:** An external console consisting of a monitor, keyboard, and mouse is connected to the console ports (VGA, PS/2, and USB) on the left side of the KVM switch.
- Step 2:** A KVM cable with a custom SPHD connector is plugged into one of the KVM ports on the rear panel.
- Step 3:** The other end of the KVM cable is connected to a computer tower. Dotted lines indicate that multiple computers can be connected to different KVM ports.
- Step 4:** A network cable (RJ-45) is plugged into the network port on the rear panel. Dotted lines indicate that multiple switches can be connected to different network ports.
- Step 5:** A power cord is plugged into the power input jack on the left side of the KVM switch.

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**.

A screenshot of the 'KL9116 Login' dialog box. It has a title bar with the text 'KL9116 Login'. Inside the dialog, there are two text input fields: 'Username:' and 'Password:'. Below these fields is a button labeled 'Login'.

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

A screenshot of the 'KL9116 Main' OSD (On-Screen Display) menu. The title bar says 'KL9116 Main' and includes window control icons. Below the title bar are four tabs: 'Main', 'Configuration', 'Administration', and 'Log'. The 'Main' tab is selected. The main area displays a tree view of system components:

- [01] ATENIwl. 1
- [02] Windows 2K AS
- [03] ATENIwl. 2
- [04] ATENIwl. 3
- [05] Mail Server 1
- [06] Mail Server 2
- [07]
- [08] Web Server 1
- [09] Web Server 2
- [10]
- [11]
- [12] R & D 1 (highlighted)
- [13]
- [14]
- [15]
- [16]

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	Direct	8	16
Connections	Max.	64 (via Cascade)	128 (via Cascade)
Console	Local	1	
Connections	Remote		
Port Selection		OSD, Hotkey, Pushbutton	
Connectors	External Keyboard	1 x 6-pin Mini-DIN Female (Purple)	
	Console 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)	
Switches	PON	1 x DB-5 Male (Black)	
	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	
	On Line	8 (Green)	16 (Green)
LEDs	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	1600 x 1200@60Hz; DDC2B
	Remote	1-255 Seconds	
Scan Interval		100-240V AC; 50/60 Hz; 1A	
I/P Rating		120V/31W; 230V/39W	
Power Consumption		0-40°C	
Environment	Operating Temp.	-20-60°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.