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ATEN KN1116VA

ATEN KN1116VA 16-Port Cat 5 KVM Over IP Switch User Manual

Model: KN1116VA

1. Introduction

The ATEN KN1116VA is a 1-Local/1-Remote Access 16-Port Cat 5 KVM Over IP Switch designed for efficient management of multiple servers from both local and remote locations. This device allows operators to monitor and access their entire data center over a network using a web-based browser. It supports high video resolutions up to 1920 x 1200 at 60Hz for both local and remote sessions. Key features include virtual media support, power association with ATEN PDUs, FIPS 140-2 Level 1 security standards, and a Laptop USB Console (LUC) for direct laptop connection.

2. Safety Information

Please read all instructions carefully before operating this equipment. Adhere to all warnings and instructions marked on the unit. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Ensure proper grounding and ventilation. Avoid placing the device in direct sunlight, near heat sources, or in environments with excessive moisture or dust.

3. Package Contents

Verify that all components are present and in good condition. If any items are missing or damaged, contact your dealer.

- 1 x ATEN KN1116VA 1-Local/1-Remote Access 16-Port Cat 5 KVM over IP Switch with Virtual Media (1920 x 1200)
- 1 x Power Adapter
- 1 x Rack Mount Kit
- 1 x Console Cable
- 1 x Grounding Wire
- 1 x User Instructions (this manual)

4. Product Overview

The ATEN KN1116VA is a rack-mountable KVM switch designed for high-density server environments. It features 16 Cat 5 KVM ports for connecting to servers, along with local and remote access capabilities.

4.1 Front Panel

This image displays the front panel of the ATEN KN1116VA KVM Over IP Switch, featuring status indicators and port labels. The front panel includes LED indicators for power, link status, and port activity, along with buttons for local console control.

4.2 Rear Panel

The rear panel typically includes power input, network ports (LAN), local console ports (VGA, USB for keyboard/mouse), and the 16 Cat 5 KVM ports for server connections. Specific port layouts can be found in the detailed product diagram in the full manual.

5. Setup

Follow these steps to set up your ATEN KN1116VA KVM Over IP Switch.

1. **Rack Mounting:** Securely mount the KVM switch into a standard 19-inch equipment rack using the provided rack mount kit.
2. **Grounding:** Connect the grounding wire from the KVM switch to an appropriate ground.
3. **Local Console Connection:** Connect a VGA monitor, USB keyboard, and USB mouse to the local console ports on the rear panel.
4. **Server Connections:** Use Cat 5e/6 cables to connect the 16 KVM ports on the switch to the KVM adapters (not included) attached to your servers.
5. **Network Connection:** Connect the KVM switch's LAN port to your network switch or router using an Ethernet cable.
6. **Power Connection:** Connect the power adapter to the KVM switch and then plug it into a grounded AC power outlet.

6. Operating

The KN1116VA offers flexible access and control options.

6.1 Local Console Access

Once connected, you can directly control any connected server from the local console (monitor, keyboard, mouse) by selecting the desired port using the front panel buttons or hotkey commands.

6.2 Remote IP Access

Access the KVM switch remotely via a web browser. Enter the IP address of the KVM switch into your browser's address bar. Log in with your credentials to gain full control over connected servers. This allows for monitoring and management from any network-connected location.

6.3 Virtual Media

The virtual media function allows you to map a local storage device (e.g., USB drive, CD/DVD-ROM) from your remote client to a connected server. This is useful for installing software, applying patches, or performing diagnostics.

6.4 Power Association

If integrated with ATEN PDU power outlets, the KVM ports can be associated with specific power outlets. This enables power management of servers directly from the KVM over IP switch's user interface, allowing for remote power cycling or shutdown.

6.5 Laptop USB Console (LUC)

A dedicated USB port allows direct connection of a laptop for easy console operation, providing a convenient way to access and manage servers without a full local console setup.

6.6 Panel Array Mode

This feature allows both local console operators and remote access users to view multiple video outputs simultaneously, enhancing monitoring capabilities in a data center environment.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your KVM switch.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings are clear and unobstructed to prevent overheating.
- **Firmware Updates:** Periodically check the ATEN website for firmware updates to ensure your device has the latest features and security enhancements.

8. Troubleshooting

This section addresses common issues you might encounter.

- **No Power:** Check the power adapter connection and the power outlet. Ensure the power LED on the front panel is illuminated.
- **No Video Display:** Verify all video cable connections from the KVM switch to the monitor and from the KVM adapters to the servers. Ensure the monitor is powered on and set to the correct input.
- **Keyboard/Mouse Not Responding:** Check USB cable connections. Try connecting the keyboard/mouse directly to the server to rule out server-side issues.
- **Cannot Access Remotely:** Verify network cable connections. Check the KVM switch's IP address and network settings. Ensure there are no firewall restrictions blocking access.
- **Virtual Media Not Working:** Ensure the virtual media feature is enabled and configured correctly. Check the connection of the storage device to the remote client.

9. Specifications

Model	KN1116VA
Operation Mode	KVM
Operating Voltage	208 Volts (AC)
Connector Type	RJ45
Number of Ports	16
Video Resolution	Up to 1920 x 1200 @ 60Hz
Security Standard	FIPS 140-2 Level 1
Connectivity Protocol	Ethernet (Web, SNMP, Telnet)
Control Method	Remote
Operating System Support	Linux, Mac OS X
Dimensions (LxWxH)	22.4 x 6 x 20.5 inches
Item Weight	11.5 pounds
Color	Black

10. Warranty and Support

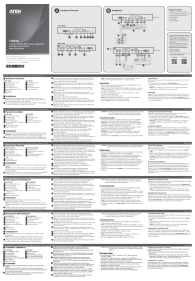
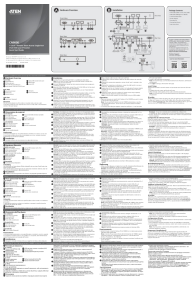
ATEN provides comprehensive support for its products.

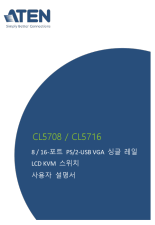
- **Localized Repair Service:** Access to repair centers for Return Merchandise Authorization (RMA) services.
- **Extended Warranty:** Options for variable value-added service packages to extend product warranty.
- **Free Technical Support:** ATEN offers free technical support with a commitment to respond to customers within 4 hours.

For further assistance, please visit the official ATEN website or contact their customer support directly. You can find more information and support resources at ATEN Support.

This diagram highlights ATEN's commitment to customer service, detailing options for repair, warranty extensions, and technical assistance.

Related Documents - KN1116VA

	[ATEN KL1116VN 16-Port 48cm LCD IP-KVM Switch - Technical Specifications] Detailed technical specifications and features for the ATEN KL1116VN 16-Port Cat 5 Dual Rail LCD IP-KVM Switch, designed for efficient server room and data center management. Includes product overview, key features, and technical data.
	[ATEN KL1516AiM 43cm LCD IP-KVM 16-Port: Features, Specs, and Overview] Detailed overview of the ATEN KL1516AiM 43cm LCD IP-KVM 16-Port switch, featuring local/remote access, dual rail design, and advanced management capabilities for server rooms.
	[ATEN CN9600: Quick Start Guide for Single Port DVI KVM over IP Switch] This guide provides essential information for setting up and operating the ATEN CN9600, a single-port DVI KVM over IP switch for local and remote access. Learn about hardware overview, installation, operation, and IP configuration.
	[ATEN CN9000: Quick Start Guide for Single Port VGA KVM over IP Switch] This document provides a quick start guide for the ATEN CN9000, a single-port VGA KVM over IP switch. It covers hardware overview, installation steps, and basic operation for local and remote access, including network setup and IP configuration.
	[ATEN KG0016 / KG0032 16/32- KVM over IP] ATEN KG0016 KG0032 16/32- KVM over IP , . , .



ATEN CL5708 / CL5716 LCD KVM

ATEN CL5708 CL5716 8/16 PS/2-USB VGA LCD KVM . , , OSD ,

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