Raritan DKX3-216

Raritan Dominion KX III KVM-over-IP Switch User Manual

Model: DKX3-216

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Raritan Dominion KX III DKX3-216 KVM-over-IP Switch. The Dominion KX III is a high-performance KVM-over-IP switch designed for secure, remote access and control of servers and other IT devices.
The DKX3-216 model features 16 ports, supports 2 remote users, includes a DVI local port, virtual media capabilities, and dual power for enhanced reliability.

PRODUCT OVERVIEW

Figure 1: Front Panel View. This image displays the front panel of the Raritan Dominion KX III DKX3-216 KVM-over-IP Switch, showing the Raritan logo, Dominion branding, model number DKX3-216, and indicators for Remote1, Remote2, LAN1, and LAN2. A USB port is visible on the left side.

Figure 2: Rear Panel View. This image shows the rear panel of the Raritan Dominion KX III DKX3-216 KVM-over-IP Switch, highlighting the dual power inputs, LAN ports (LAN1, LAN2), a reset button, local user ports (USB, DVI-D, VGA, Serial), and 16 KVM ports numbered 1 through 16.

The Dominion KX III DKX3-216 is designed for enterprise-level KVM-over-IP access, providing secure and reliable remote management of servers and other IT equipment. Its robust features ensure high performance and flexibility in various data center environments.

SETUP

1. Unpacking and Inspection

Carefully unpack the Dominion KX III switch and all accessories. Verify that all components listed in the packing list are present and undamaged. Report any missing or damaged items to your vendor immediately.

2. Rack Mounting

The DKX3-216 is designed for standard 19-inch rack mounting. Use the provided rack mount kit to secure the unit in your server rack. Ensure adequate ventilation around the unit to prevent overheating.

3. Power Connection

Connect the provided power cords to the dual power inputs on the rear of the switch and then to separate, grounded power outlets. The dual power supplies provide redundancy for continuous operation.

4. Network Connection

Connect Ethernet cables from the LAN1 and LAN2 ports on the rear of the switch to your network switch or router. It is recommended to use both LAN ports for network redundancy.

5. Connecting Servers/Computers

Connect KVM cables (VGA/DVI, USB, audio) from your servers or computers to the numbered KVM ports on the rear of the DKX3-216. Ensure each server is connected to a unique KVM port.

6. Local Console Connection (Optional)

If using a local console, connect a DVI monitor, USB keyboard, and USB mouse to the "LOCAL USER" ports on the rear of the switch.

7. Initial Configuration

Power on the switch. Access the initial configuration via the local console or by connecting to the default IP address (refer to the quick setup guide for default IP and login credentials). Configure network settings, user accounts, and KVM port assignments as needed.

OPERATING INSTRUCTIONS

1. Remote Access

To access the KVM switch remotely, open a web browser and enter the IP address or hostname of the Dominion KX III. Log in with your credentials. The web interface provides access to all connected servers.

2. Server Selection

From the web interface, select the desired server from the list of connected devices. This will open a remote KVM session, allowing you to view and control the server's console.

3. Virtual Media

The Dominion KX III supports virtual media, allowing you to mount ISO images or local drives to remote servers. This feature is essential for software installation, operating system deployment, and diagnostics.

4. Power Control

If integrated with Raritan Power Distribution Units (PDUs), the Dominion KX III can provide remote power cycling and control of connected servers.

5. Security Features

Utilize the advanced security features, including strong encryption (AES, FIPS 140-2), LDAP/RADIUS/Active Directory integration, and customizable user permissions, to secure your remote access.

MAINTENANCE

1. Firmware Updates

Regularly check the Raritan support website for the latest firmware updates. Applying firmware updates ensures optimal performance, security, and access to new features. Follow the provided instructions carefully during the update process.

2. Cleaning

Keep the unit clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosols directly on the unit.

3. Environmental Conditions

Ensure the operating environment maintains appropriate temperature and humidity levels as specified in the product's technical specifications. Proper airflow around the unit is crucial for long-term reliability.

4. Cable Management

Periodically inspect all connected cables (KVM, network, power) for wear or damage. Ensure cables are neatly organized and secured to prevent accidental disconnections or damage.

TROUBLESHOOTING

1. No Video on Remote Session

- **Check KVM Cable:** Ensure the KVM cable is securely connected to both the server and the KVM switch port.
- **Server Power:** Verify that the target server is powered on and operating correctly.
- **Resolution Settings:** Adjust the video resolution settings on the target server to a supported resolution for the KVM switch.
- **Firmware:** Ensure the KVM switch has the latest firmware installed.

2. Cannot Access Web Interface

- **Network Connection:** Verify that the network cables are properly connected to the LAN ports and your network.
- **IP Address:** Confirm the IP address of the KVM switch is correct and reachable from your network. Check for IP conflicts.
- **Firewall:** Ensure no firewall rules are blocking access to the KVM switch's ports (e.g., HTTP/HTTPS).
- **Power:** Check if the KVM switch is powered on.

3. Keyboard/Mouse Not Responding

- **USB Connection:** Ensure the USB connection from the server to the KVM cable is secure.
- **Virtual Media Conflict:** If virtual media is active, try disconnecting it temporarily.
- **Reboot Server:** Sometimes a server reboot can resolve peripheral issues.

4. Dual Power Supply Issues

- **Power Cords:** Verify both power cords are securely connected to the switch and active power sources.
- **Power Source:** Check the power outlets for functionality.
- **LED Indicators:** Refer to the power supply LED indicators on the unit for status.

SPECIFICATIONS

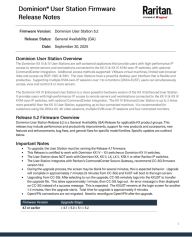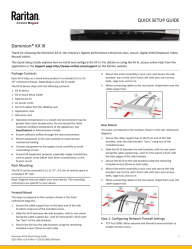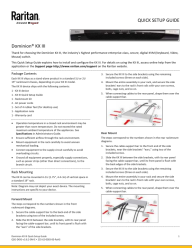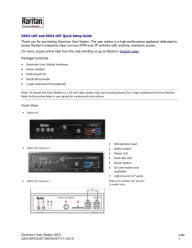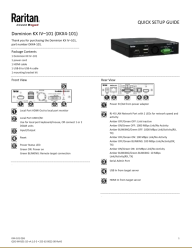| Feature	Description
Model Number	DKX3-216
KVM Ports	16
Remote Users	2
Local Console	1 x DVI-D, 2 x USB (Keyboard/Mouse)
Network Interfaces	2 x 10/100/1000 Mbps Ethernet (RJ-45)
Power Supply	Dual Redundant, AC Input
Virtual Media	Supported
Dimensions (LxWxH)	21.61 x 17.64 x 5.04 inches
Weight	13.85 pounds
Manufacturer	Raritan Computer
First Available Date	March 7, 2014

WARRANTY AND SUPPORT

Raritan products typically come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Raritan website.

For technical support, product documentation, and software downloads, please visit the Raritan support portal. You can also contact Raritan technical support directly via phone or email for assistance with installation, configuration, or troubleshooting.

Please note: Warranty terms may vary by region and reseller. Always consult official Raritan resources for the most accurate and up-to-date information.

Related Documents - DKX3-216

[Dominion User Station Firmware Release Notes v5.2](#)
Release notes for Raritan Dominion User Station firmware version 5.2, detailing new features, enhancements, bug fixes, and upgrade prerequisites for KVM-over-IP switches.

[Raritan Dominion KX III Quick Setup Guide](#)
Step-by-step instructions for installing and configuring the Raritan Dominion KX III digital KVM switch, including network setup, hardware connections, and basic configuration.

[Raritan Dominion KX III Quick Setup Guide](#)
This guide provides instructions for installing and configuring the Raritan Dominion KX III, a high-performance enterprise-class digital KVM switch. It covers package contents, rack mounting, network setup, target server connection, and remote console access.

[Raritan Dominion User Station DKX3-UST and DKX4-UST Quick Setup Guide](#)
Quick setup guide for Raritan's Dominion User Station (DKX3-UST and DKX4-UST), detailing hardware connections, initial login, adding devices, and using KVM/Serial clients for enterprise-class KVM-over-IP access.

[Raritan Dominion KX IV-101 (DKX4-101) Quick Setup Guide](#)
A comprehensive quick setup guide for the Raritan Dominion KX IV-101 (DKX4-101) KVM over IP switch, detailing package contents, port descriptions, equipment connection procedures, and initial configuration steps for PC and iOS devices.

[Raritan Dominion Enhanced User Station DKX4-EUST Quick Setup Guide](#)
A quick setup guide for the Raritan Dominion Enhanced User Station (DKX4-EUST), covering installation, configuration, device connection, KVM client usage, and network settings.