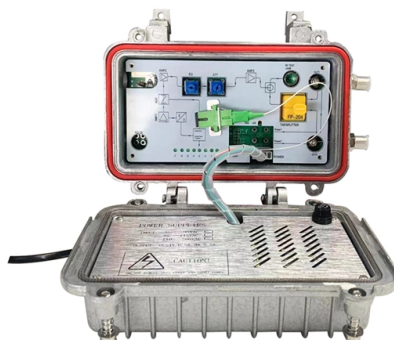


RIVO MULTITRADE OPTICAL SYSTEMS

Remote Access Switch



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

A remote access switch allows administrators to securely manage network devices or servers from anywhere using protocols like SSH or KVM-over-IP solutions. Remote Access via Network Protocols

For network switches, SSH (Secure Shell) is the preferred method for remote management because it encrypts all communication, protecting usernames, passwords, and configuration data from interception . To enable SSH on a Cisco switch, you must:

- Assign a management IP address to a VLAN on the switch .
- Set a hostname and domain name to generate RSA keys for encryption .
- Create local user accounts with strong passwords for authentication .
- Verify SSH support using commands like `show ip ssh` and enable SSH version 2 for secure connections . Telnet is considered obsolete because it transmits data in plain text, making it vulnerable to eavesdropping . Once configured, administrators can use clients like PuTTY on Windows or the Terminal app on macOS to access the switch CLI remotely .

Hardware-Based Remote Access: KVM-over-IP

For servers and multi-platform devices, KVM-over-IP switches provide a centralized solution for remote management . These devices allow IT administrators to:

- Access multiple servers or network devices from a single console.
- Perform operational tasks, troubleshooting, and emergency recovery without being physically present .
- Use virtual media to mount USB drives, CD-ROMs, or ISO images remotely.
- Authenticate securely with CAC/Smart Card support and comply with standards like FIPS 140-2 .
- Monitor and log sessions, track events, and receive alerts for better infrastructure management . Examples include Raritan Dominion KX-III for high-performance data centers and Vertiv Avocent KVM-over-IP switches for branch offices and remote sites .

Key Benefits

- Security: Encrypted connections prevent unauthorized access.
- Efficiency: Reduces the need for on-site visits, saving time and costs.
- Centralized Management: Consolidates access to multiple devices, servers, and switches.
- Flexibility: Supports both in-band (network) and out-of-band (direct console) management. By combining SSH for network switches and KVM-over-IP for servers, organizations can achieve comprehensive, secure, and efficient remote management of their IT infrastructure.

Article Content

KVM-over-IP Switches | Raritan | Legrand

Find a variety of KVM-over-IP switches that leverage Ethernet and TCP/IP networks to provide remote access, control, and

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

