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TRIPP LITE B064-032-02-IPG

Tripp Lite B064-032-02-IPG 32-Port Cat5 IP KVM Switch User Manual

Model: B064-032-02-IPG

1. INTRODUCTION AND OVERVIEW

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Tripp Lite B064-032-02-IPG 32-Port Cat5 IP KVM Switch. This device is designed for efficient remote and local control of up to 32 computers or servers, supporting a combination of PS/2, USB, and Serial interfaces. It accommodates up to three independent, simultaneous users (one local and two remote).

Key features include high-resolution video support (up to 1920 x 1200 @ 60Hz for both local and remote sessions), a full-screen graphical On-Screen Display (OSD) with multi-level authentication, and support for virtual media. The switch is equipped with dual power supplies for reliability and offers advanced security features like FIPS 140-2 level 1 compliance and remote authentication.



Figure 1.1: Front view of the Tripp Lite B064-032-02-IPG KVM Switch, showing the rack-mount design and front panel indicators and ports.

2. WHAT'S IN THE BOX

Verify that all components are present before proceeding with installation:

- Tripp Lite B064-032-02-IPG 32-Port Cat5 IP KVM Switch
- Two (2) C13 to 5-15P power cords
- CD with owner's manual, quick start guide, and device files

- Printed Quick Start Guide
- RJ45 to DB9 adapter for dial-in modem functionality
- Grounding wire
- Set of foot pads
- Rackmount hardware



Figure 2.1: The KVM Switch alongside its included accessories, such as power cords, rackmount hardware, and documentation.

3. SETUP AND INSTALLATION

3.1 Physical Installation

The B064-032-02-IPG is designed for 1U rack-mount installation. Use the provided rackmount hardware to secure the unit in a standard 19-inch equipment rack. Ensure adequate ventilation around the unit to prevent overheating.

3.2 Connecting the KVM Switch

Follow these steps to connect your KVM switch:

1. **Power Connections:** Connect both C13 to 5-15P power cords to the dual power supply inputs on the rear of the KVM switch and then to separate, grounded AC power outlets. The dual power supplies provide redundancy.
2. **Local Console Connection:**
 - Connect a VGA or DVI monitor to the corresponding console port on the rear panel.
 - Connect a USB keyboard and mouse to the dedicated USB console ports. PS/2 keyboards and mice can be used with appropriate adapters (not included).
3. **Server Connections:** Connect Cat5e/6 cables from the RJ45 KVM ports on the rear of the switch to Tripp Lite Server Interface Units (SIUs) attached to your servers. Ensure the correct SIU type (e.g., B055-001-USB-V2 for virtual media support) is used for each server.
4. **Network Connections:** Connect one or both LAN ports on the rear of the KVM switch to your network using

standard Ethernet cables. This enables IP-based remote access.

5. **Serial Port:** If dial-in modem access is desired, connect a modem to the serial port using the provided RJ45 to DB9 adapter.
6. **Front Panel USB Ports:** These ports can be used for connecting USB peripherals (e.g., flash drives for Virtual Media) or an external keyboard/mouse.
7. **Front Panel Mini-B USB Port:** Connect a laptop to this port for direct console operation of the switch, simplifying local management.



Figure 3.1: Rear view of the KVM Switch, highlighting the dual power inputs, LAN ports, console connections (VGA/DVI), and 32 RJ45 KVM ports for server connections.

3.3 Initial Configuration

After connecting all necessary cables, power on the KVM switch. Access the On-Screen Display (OSD) via the local console to configure initial network settings (IP address, subnet mask, gateway) and user accounts. Refer to the detailed owner's manual on the included CD for specific OSD navigation and configuration steps.

4. OPERATING INSTRUCTIONS

4.1 Switching Between Connected Computers

Servers can be accessed and controlled via the local console or remotely. Switching between servers is typically done through the OSD menu, hotkey commands, or front panel buttons (if available for direct port selection).



Figure 4.1: Close-up of the KVM Switch front panel, showing LED indicators for power, online status, selected ports, and front-accessible USB ports.

4.2 On-Screen Display (OSD)

The graphical OSD provides a centralized interface for managing the KVM switch and connected servers. Features include:

- **Server Selection:** Navigate and select active servers.
- **User Management:** Create, modify, and delete user accounts with multi-level authentication (Super Administrator, Administrator, User).
- **System Settings:** Configure network parameters, security settings, and language preferences (English, German, Russian, Japanese, Traditional Chinese, Simplified Chinese).
- **Virtual Media Control:** Manage the redirection of USB storage devices.
- **Panel Array Mode:** View multiple server screens simultaneously for monitoring.
- **On-Screen Keyboard:** Access a virtual keyboard in various language formats.

4.3 Remote Access

The KVM switch supports remote access via a web browser or dedicated Windows and Java applications. Ensure

the KVM's network settings are correctly configured and accessible from your remote location. Remote sessions offer full control, including video, keyboard, mouse, and virtual media functionality.

4.4 Virtual Media

When using B055-001-USB-V2 Server Interface Units, the Virtual Media feature allows you to access DVD/CD drives, flash drives, and other storage media connected to the KVM's front panel USB ports as if they were directly connected to the remote server. This is crucial for software installations, operating system deployments, and data transfers.

4.5 Security and Event Management

The KVM switch incorporates robust security features:

- **FIPS 140-2 Level 1:** Support for FIPS 140-2 level 1 security standards.
- **Remote Authentication:** Integration with RADIUS, LDAP, LDAPS, and Active Directory for centralized user authentication.
- **Event Logging:** Critical events can be tracked via email notifications, SNMP traps, a Windows-based log server, or a Syslog server.

5. MAINTENANCE

To ensure optimal performance and longevity of your Tripp Lite KVM switch, consider the following maintenance guidelines:

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Avoid liquid cleaners or solvents. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Check the Tripp Lite website regularly for firmware updates. Keeping the firmware current can improve performance, add features, and resolve known issues.
- **Cooling:** The unit features temperature sensors that control the speed of its cooling fans. Ensure the operating environment maintains appropriate temperatures and airflow.
- **Power Redundancy:** Regularly verify that both power supplies are functioning correctly and connected to independent power sources to maintain redundancy.

6. TROUBLESHOOTING

This section addresses common issues you might encounter. For more detailed troubleshooting, refer to the full owner's manual on the included CD or contact Tripp Lite technical support.

- **No Video Display:**

- Verify all video cables (VGA/DVI) are securely connected between the KVM console port and the monitor.
- Ensure the Server Interface Unit (SIU) is correctly connected to the server's video output and the KVM port.
- Check the server's video output settings.

- **Keyboard/Mouse Not Responding:**

- Confirm USB/PS/2 keyboard and mouse are properly connected to the KVM console ports.
- Ensure the SIU is correctly connected to the server's USB/PS/2 ports.
- If experiencing issues with specific keyboard/monitor trays (e.g., Tripp Lite B021), a known issue may cause intermittent upper/lower case changes. Tripp Lite suggests using two USB/PS2 adapters together

to filter this problem.

- For remote sessions, check the remote client software settings and ensure the USB mouse synchronization feature is enabled.

- Remote Access Issues (No Video/Mouse):**

- Verify network connectivity to the KVM switch. Check LAN cable connections and network configuration (IP address, gateway).
- Ensure the remote client software (browser or application) is up-to-date and compatible.
- If remote video or mouse control is inconsistent, consider checking for the latest firmware updates for the KVM switch.
- A remote reboot of the KVM switch might resolve temporary software glitches.

- Power Issues:**

- Ensure both power cords are securely connected and receiving power from their respective outlets.
- Check the power indicators on the front panel.

7. SPECIFICATIONS

| Feature | Detail |
|------------------------------------|---|
| Brand | TRIPP LITE |
| Model Number | B064-032-02-IPG |
| KVM Ports | 32 x RJ45 (Cat5) |
| User Capacity | 2 Remote + 1 Local (3 total simultaneous users) |
| Local Console Ports | 1 x DVI, 1 x VGA, 2 x USB (Keyboard/Mouse) |
| Network Ports | 2 x RJ45 (LAN) |
| Other Ports | 3 x Front USB (Virtual Media), 1 x Front Mini-B USB (Laptop Console), 1 x Serial (RJ45) |
| Video Resolution | Up to 1920 x 1200 @ 60Hz (24-bit color depth) |
| Rack Unit Size | 1U |
| Dimensions (LxWxH) | 22 x 21 x 6 inches |
| Item Weight | 12.1 pounds |
| Power Input | Dual Redundant Power Supplies |
| Operating Systems Supported | All major operating systems |

8. WARRANTY AND TECHNICAL SUPPORT

8.1 Product Warranty

The Tripp Lite B064-032-02-IPG KVM Switch is covered by a **3-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the

warranty information provided with your product or visit the official Tripp Lite website.

8.2 Technical Support

For technical assistance, troubleshooting, or product inquiries, please contact Tripp Lite customer support. Support resources, including FAQs, drivers, and additional documentation, are available on the official Tripp Lite website. When contacting support, please have your product model number (B064-032-02-IPG) and serial number ready.