Perle STS4D

Perle IOLAN STS4D GR Secure Terminal Server User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Perle IOLAN STS4D GR Secure Terminal Server. The IOLAN STS4D GR is designed to provide secure access and management for up to four serial devices over an IP network, featuring Gigabit Ethernet connectivity and robust security protocols.

2. SAFETY INFORMATION

- Ensure the device is powered by the correct voltage and current as specified by the manufacturer.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Provide adequate ventilation around the unit to prevent overheating.
- Only use accessories and cables approved by Perle.
- Disconnect power before cleaning or performing any maintenance.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Perle IOLAN STS4D GR Secure Terminal Server unit
- Power Adapter
- Quick Start Guide (or similar documentation)
- Mounting hardware (if applicable for wall or rail mounting)

If any items are missing or damaged, please contact your vendor or Perle support immediately.

4. PHYSICAL OVERVIEW

The Perle IOLAN STS4D GR Secure Terminal Server is a compact unit designed for various deployment environments. Below is an image illustrating the device's front panel and overall appearance.

This image displays the Perle IOLAN STS4D GR Secure Terminal Server. The device is a compact, dark gray rectangular unit. The front panel features four RJ-45 serial ports, clearly visible at the bottom. The top surface shows LED indicators for power, network activity, and serial port status, along with the 'Perle' logo.

Front Panel Features:

- **Serial Ports:** Four RJ-45 ports for connecting serial devices.
- **LED Indicators:** Status lights for Power, Network Link/Activity, and individual Serial Port activity.

Rear Panel Features:

- **Power Input:** Connector for the external power adapter.
- **Ethernet Port:** One RJ-45 port for network connection (10/100/1000Base-T).
- **Management Port:** Dedicated port for device management (if applicable).

5. SETUP

5.1 Mounting the Device

The IOLAN STS4D GR offers flexible mounting options:

- **Desktop Placement:** Place the unit on a flat, stable surface, ensuring adequate ventilation.
- **Wall Mounting:** Use the provided mounting hardware to secure the unit to a wall. Refer to the Quick Start Guide for specific instructions and template.
- **Rail Mounting:** The device can be mounted on a DIN rail using appropriate accessories (sold separately or included).

5.2 Power Connection

1. Connect the power adapter to the power input port on the rear of the IOLAN STS4D GR.
2. Plug the power adapter into a suitable electrical outlet.
3. Observe the Power LED on the front panel; it should illuminate to indicate power is supplied.

5.3 Network Connection

1. Connect a standard Ethernet cable (RJ-45) from your network switch or router to the Ethernet port on the rear of the IOLAN STS4D GR.
2. The Network Link/Activity LED on the front panel should illuminate, indicating a successful network connection.

5.4 Serial Port Connection

1. Connect your serial devices (e.g., servers, routers, industrial equipment) to the RJ-45 serial ports on the front panel of the IOLAN STS4D GR using appropriate serial cables.
2. Ensure the pinouts of your serial cables match the requirements of the IOLAN STS4D GR. Refer to the Perle documentation for pinout details.

5.5 Initial Configuration

After connecting power and network, the device can be configured via its web interface, console port, or through network management tools. Refer to the Perle IOLAN STS4D GR Software User Guide for detailed configuration steps, including setting up IP addresses, serial port parameters, and security features.

6. OPERATING INSTRUCTIONS

The Perle IOLAN STS4D GR allows remote access and management of connected serial devices over an IP network. Once configured, users can:

- Access serial console ports of network devices from any location with network access.
- Utilize secure protocols such as SSH, SSL, and SNMP for data encryption and authentication.
- Monitor the status of connected serial devices and the terminal server itself through the web interface or network management systems.
- Perform remote reboots or power cycling of connected devices (if supported by the serial device and configured).

For detailed operational procedures and advanced features, consult the comprehensive Perle IOLAN STS4D GR Software User Guide.

7. MAINTENANCE

7.1 Cleaning

To clean the device, disconnect power and gently wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays directly on the unit.

7.2 Firmware Updates

Periodically check the Perle Systems website for firmware updates. Keeping the firmware up-to-date ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware update package carefully.

7.3 Environmental Considerations

Ensure the operating environment remains within the specified temperature and humidity ranges to prolong the life of the device.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your IOLAN STS4D GR.

8.1 Power Issues

- **No Power LED:** Check the power adapter connection to the device and the electrical outlet. Ensure the outlet is functional.

8.2 Network Connectivity Issues

- **No Network Link LED:** Verify the Ethernet cable is securely connected to both the IOLAN STS4D GR and the network switch/router. Check the status of the connected network port.
- **Cannot Access Web Interface:** Ensure the device has a valid IP address on your network and that your computer is on the same subnet or has routing configured correctly. Check firewall settings.

8.3 Serial Port Issues

- **No Serial Port Activity:** Verify the serial cable connections and ensure the serial device is powered on and functioning. Check the serial port configuration (baud rate, data bits, parity, stop bits) on the IOLAN STS4D GR to match the connected device.

For more complex issues, consult the detailed troubleshooting section in the Perle IOLAN STS4D GR Software User Guide or contact Perle technical support.

9. SPECIFICATIONS

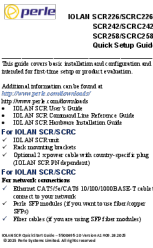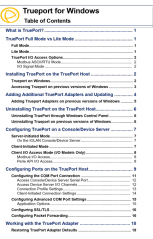| Feature	Specification
Model	IOLAN STS4D GR
Memory (RAM)	512 MB
Network Interface	1 x RJ-45 (10/100/1000Base-T Gigabit Ethernet)
Serial Ports	4 x Serial Port (RJ-45)
CPU	ARM, 600 MHz
Mounting Options	Wall Mountable, Desktop, Rail-mountable
Dimensions (L x W x H)	26 x 17 x 7 inches
Item Weight	1.5 pounds
Connectivity Technology	Ethernet

10. WARRANTY AND SUPPORT

Perle Systems, Inc. provides a warranty for the IOLAN STS4D GR Secure Terminal Server against defects in materials and workmanship. The specific terms and duration of the warranty are detailed in the warranty statement

included with your product or available on the official Perle Systems website.

For technical support, product documentation, firmware updates, and warranty information, please visit the official Perle Systems website or contact their customer support team directly. When contacting support, please have your product model number (04031904) and serial number ready.
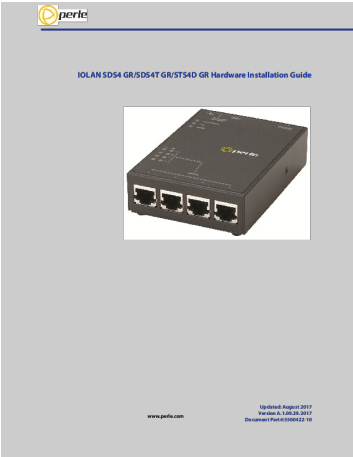
Related Documents - STS4D

	Perle IOLAN SCR Series Quick Setup Guide Quick setup guide for Perle IOLAN SCR226, SCRC226, SCR242, SCRC242, SCR258, and SCRC258 devices, covering installation, configuration, and hardware overview.
	Perle IOLAN SCG Hardware Installation Guide Comprehensive hardware installation guide for the Perle IOLAN SCG series, detailing components, setup, specifications, and maintenance for network infrastructure management.
	Perle IOLAN SCG L Secure Console Server: Out-of-Band IT Infrastructure Management with Integrated LTE Explore the Perle IOLAN SCG L Secure Console Server, a robust solution for out-of-band IT infrastructure management. Features include integrated LTE, modular port options (RS232, RS422, RS485, USB 3.0), advanced security, high availability, and comprehensive network protocol support for data centers.
	Trueport for Windows User Guide A comprehensive user guide for Perle TruePort for Windows, detailing serial COM port redirection, installation, configuration of Full/Lite modes, SSL/TLS security, Modbus I/O access, and CLI commands for seamless integration of serial devices over Ethernet.
	Perle IOLAN SCG Hardware Installation Guide for Expandable Models Comprehensive hardware installation guide for the Perle IOLAN SCG series of expandable serial console servers, covering hardware features, installation, and basic operation.

Perle IOLAN DS Family SDS/SCS/STS User's Guide

Comprehensive user's guide for the Perle IOLAN DS Family of SDS, SCS, and STS device servers, covering installation, configuration, features, and troubleshooting.

Documents - Perle – STS4D

[pdf] User Manual Installation Guide Specifications Guide Safety Datasheet Warranty

IOLAN SDS4 SDS4T STS4D Hardware Installation Guide 5500422 book lfelton User ManualUser ManualPerle GR Secure Device Server CareTek Information Technology SolutionsPerle Caretek IT Solutions1043113549104311354910431135491043113549content etilize User Manual 1043113549content 1043113549 |||

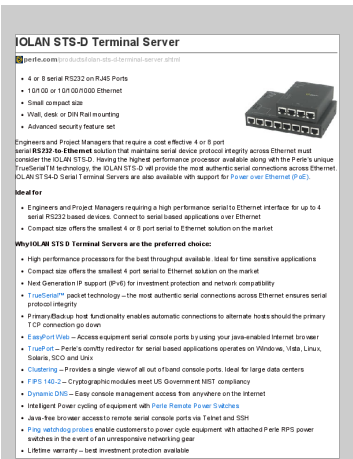IOLAN SDS4 GR/SDS4T GR/**STS4D** GR Hardware Installation Guide www.perle.com Updated: August 2017 Version A.1.09.29.2017 Document Part#:5500422-10 THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS GUIDE ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMEND...

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