TRENDnet TEG-S591

TRENDnet TEG-S591 9-Port Multi-Gig Switch
INSTRUCTION MANUAL

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the TRENDnet TEG-S591 9-Port Multi-Gig Switch. This unmanaged switch is designed to expand network bandwidth and reduce traffic bottlenecks, offering high-speed connectivity for various network environments.

Key Features:

- 8 x 2.5G RJ-45 Ports (1Gbps/2.5Gbps)
- 1 x 10G RJ-45 Port (1Gbps/2.5Gbps/10Gbps)
- 60Gbps Switching Capacity
- Fanless Design for Silent Operation
- Wall-Mountable Metal Housing
- NDAA & TAA Compliant

2. Package Contents

Verify that your package contains the following items:

- TRENDnet TEG-S591 9-Port Multi-Gig Switch
- Quick Installation Guide
- Power Adapter (12V, 1A)

If any items are missing or damaged, please contact your reseller or TRENDnet customer support.

3. Hardware Overview

Figure 3.1: Front Panel Layout
Detailed front view of the TEG-S591 switch, highlighting the eight 2.5G RJ-45 ports (1-8), one 10G RJ-45 port (9), and the corresponding LED indicators for power, link, and activity.

Figure 3.2: Rear Panel Layout
Rear view of the TEG-S591 switch, displaying the DC power input port and ventilation slots.

The TEG-S591 features a durable metal housing with ventilation for heat dissipation. The front panel includes LED indicators for power and port status, while the rear panel houses the DC power input.
LED Indicators:

- **PWR:** Indicates power status. On when the device is powered.
- **Ports 1-8 (2.5G LINK/ACT):** Indicates link status and activity for 2.5G ports.
- **Port 9 (10G LINK/ACT):** Indicates link status and activity for the 10G port.

4. Setup

The TRENDnet TEG-S591 is an unmanaged switch, designed for plug-and-play operation. No software configuration is required.

1. **Power Connection:** Connect the included power adapter to the DC IN port on the rear of the switch and then plug the adapter into a standard electrical outlet. The PWR LED on the front panel will illuminate.

2. **Network Device Connection:** Connect your network devices (e.g., computers, servers, network-attached storage, routers, access points) to any of the RJ-45 ports (1-9) using standard Ethernet cables (Cat5e or better for 2.5G, Cat6a or better for 10G).

3. **Verify Connection:** Once a device is connected, the corresponding LINK/ACT LED for that port will illuminate, indicating an active network link. The LED will blink to show data activity.

Figure 4.1: Typical Network Deployment

An illustrative diagram demonstrating how the TEG-S591 Multi-Gig Switch integrates into a home network, connecting various devices like WiFi 6 routers, access points, and adapters to enhance network speed.

5. Operating

The TEG-S591 operates automatically once connected. It functions as a store-and-forward device, ensuring reliable data transmission. The switch supports auto-negotiation for speed and duplex mode, and auto-MDI/MDIX, eliminating the need for crossover cables.

The fanless design ensures silent operation, making it suitable for quiet environments such as home offices or living rooms.

6. Maintenance

To ensure optimal performance and longevity of your TRENDnet TEG-S591 switch, follow these maintenance guidelines:

- **Environmental Conditions:** Operate the switch within the specified temperature and humidity ranges. Avoid placing it in direct sunlight or near heat sources.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners. Ensure the device is powered off before cleaning.
- **Ventilation:** Ensure that the ventilation slots are not blocked to allow for proper airflow and heat dissipation.
- **Cable Management:** Organize network cables to prevent strain on the ports and to maintain a tidy setup.

7. Troubleshooting

If you encounter issues with your TEG-S591 switch, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the switch and a working electrical outlet. Check if the PWR LED is illuminated.
- **No Link Light:** Verify that the Ethernet cable is securely connected to both the switch port and the connected device. Try a different Ethernet cable or port. Ensure the connected device is powered on and functioning correctly.
- **Slow Network Speed:** Confirm that your connected devices and cables support the desired multi-gigabit speeds (2.5G or 10G). Ensure you are using Cat5e or better cabling for 2.5G, and Cat6a or better for 10G connections. Check for network congestion or issues with the connected devices.
- **Intermittent Connectivity:** Check all cable connections for looseness or damage. Ensure the switch is placed in a well-ventilated area to prevent overheating.

For further assistance, consult the TRENDnet support resources or contact technical support.

8. Specifications

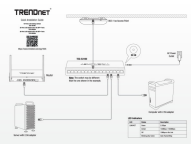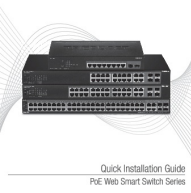| Feature	Detail
Model Number	TEG-S591
Number of Ports	9 (8 x 2.5G RJ-45, 1 x 10G RJ-45)
Data Transfer Rate	60 Gigabits Per Second (Switching Capacity)
Interface Type	RJ45
Standards	IEEE 802.3bz (2.5G); IEEE 802.3an (10G); IEEE 802.3ab; IEEE 802.3x
Product Dimensions	9.45"L x 4.1"W x 1"H
Item Weight	1.6 Pounds
Voltage	12 Volts
Case Material	Metal
Operating Temperature	Up to 104 Degrees Fahrenheit (40 Degrees Celsius)
Color	Black

9. Warranty Information

The TRENDnet TEG-S591 9-Port Multi-Gig Switch is backed by TRENDnet's Lifetime Manufacturer Protection. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the official TRENDnet website or contact customer support.
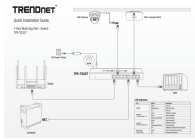
10. Technical Support

TRENDnet provides reliable technical support for its products. Our team of English-speaking advisors and technical experts are available during normal business hours to assist with any inquiries or issues you may have.

For support, please visit the official TRENDnet website or refer to the contact information provided in the Quick Installation Guide included with your product.

Related Documents - TEG-S591

	[TRENDnet TEG-S Series 2.5G Network Switch Quick Installation Guide](#) Quick installation guide for TRENDnet TEG-S3160, TEG-S50204, and TEG-S50284 2.5G network switches. Includes setup overview, LED indicators, compliance, warranty, and support information.
	[TRENDnet TEG-160WS 16-Port Gigabit Smart Switch Quick Installation Guide](#) This guide provides instructions for installing and configuring the TRENDnet TEG-160WS 16-port 10/100/1000Mbps Copper Gigabit Smart Switch. It includes package contents, system requirements, hardware installation, verification, configuration steps, and troubleshooting.
	[TRENDnet PoE Web Smart Switch Series Quick Installation Guide](#) This guide provides quick installation and configuration steps for TRENDnet PoE Web Smart Switch Series. It covers package contents, prerequisites, hardware setup, IP configuration, and safety warnings. Includes model details and compliance information.
	[TRENDnet TEG-S24g 24-Port Gigabit GREENnet Switch	High-Speed Network Connectivity](#) Discover the TRENDnet TEG-S24g, a 24-Port Gigabit GREENnet Switch offering high bandwidth, energy efficiency, and reliable network connectivity for offices. Features 48Gbps switching capacity, fanless design, and rackmount capability.

	[TRENDnet TPE-TG327 7-Port Multi-Gig PoE+ Switch Quick Installation Guide](#) Quick installation guide for the TRENDnet TPE-TG327 7-Port Multi-Gig PoE+ Switch, detailing setup, connections, and LED indicator status for network deployment.
	[TRENDnet Hive User's Guide: Network Cloud Management](#) This user's guide provides comprehensive instructions for TRENDnet Hive, a cloud-based network management platform. Learn to deploy, configure, monitor, and manage TRENDnet network devices efficiently through an intuitive interface.