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## TRENDnet TI-G50611

# TRENDnet TI-G50611 6-Port Industrial 2.5G DIN-Rail Switch User Manual

Model: TI-G50611

## 1. PRODUCT OVERVIEW

The TRENDnet TI-G50611 is a 6-Port Industrial 2.5G DIN-Rail Switch designed for demanding networking environments. It features a rugged IP50 rated metal enclosure, capable of withstanding high degrees of vibration and shock, and operates across a wide temperature range. This switch provides high-speed connectivity with 2.5G and 10G ports, suitable for various industrial applications.



Figure 1: Front view of the TRENDnet TI-G50611 Industrial Switch.

### Key Features:

- **Multi-Gigabit Ports:** 4 x 2.5G ports, 1 x 10G RJ-45 port, and 1 x 10G SFP+ port for high-speed device connections and fiber networking.
- **Industrial Hardened Design:** Rugged IP50 rated metal enclosure, resistant to shock (EN 60068-2-27), freefall (EN 60068-2-32), and vibration (EN 60068-2-6).
- **Wide Operating Temperature:** Operates reliably in temperatures ranging from -40°C to 75°C (-40°F to 167°F).
- **Redundant Power Inputs:** Dual 12V – 55V DC power inputs with overload current protection and a power failure alarm relay.
- **Mounting Options:** Includes integrated DIN-Rail mount and wall mounting hardware.

## 2. PACKAGE CONTENTS

Verify that your package contains the following items:

- TRENDnet TI-G50611 Industrial Switch
- Quick Installation Guide
- Removable Terminal Blocks
- DIN-Rail / Wall Mount Kit



Figure 2: Included components: TI-G50611 switch, quick installation guide, removable terminal blocks, and DIN-Rail/wall mount kit.

## 3. SETUP AND INSTALLATION

### 3.1 Physical Installation

The TI-G50611 switch can be mounted on a DIN-Rail or directly to a wall using the provided hardware.



Figure 3: Side view of the switch with mounting bracket.

#### **DIN-Rail Mounting:**

1. Attach the DIN-Rail bracket to the rear of the switch using the included screws.
2. Hook the top edge of the switch onto the DIN-Rail.
3. Push the bottom of the switch towards the DIN-Rail until it clicks into place.



Figure 4: The TI-G50611 switch securely mounted on a DIN-Rail.

### Wall Mounting:

1. Attach the wall mount plates to the sides of the switch using the included screws.
2. Mark the desired mounting locations on the wall using the plates as a template.
3. Drill pilot holes and insert appropriate wall anchors if necessary.
4. Secure the switch to the wall using screws through the wall mount plates.

### 3.2 Power Connection

The TI-G50611 supports dual redundant power inputs (12V – 55V DC) for enhanced reliability. A compatible power supply (e.g., models TI-M6024, 48VDC3000) is sold separately.

1. Connect the power supply to the 3-pin power terminal block on the switch. Ensure correct polarity.
2. For redundant power, connect a second power supply to the second set of terminals on the power block.
3. Connect the grounding point on the switch to an appropriate ground source.





Figure 5: Power and alarm terminal blocks on the rear of the switch.

### 3.3 Network Connections

Connect your network devices to the appropriate ports on the switch.

- **2.5G Ports (1-4):** Use standard Ethernet cables (Cat5e or better) to connect devices requiring 2.5 Gigabit speeds.
- **10G RJ-45 Port (5):** Use a Cat6a or Cat7 Ethernet cable for 10 Gigabit copper connections.
- **10G SFP+ Port (6):** Insert a compatible 10G SFP+ transceiver module (sold separately) and connect a fiber optic cable for high-speed, long-distance fiber networking.



Figure 6: Port layout and LED indicators on the TI-G50611.

### 3.4 Example Application

The TI-G50611 is suitable for various industrial and commercial applications, such as connecting PoE cameras, wireless access points, and other network devices in harsh environments.



Figure 7: Example deployment of the TI-G50611 in a network setup.

## 4. OPERATING INSTRUCTIONS

### 4.1 LED Indicators

The front panel LEDs provide status information for the switch and its ports:

- **PWR (P1, P2):** Indicates power status for redundant power inputs. Green for active.
- **Alarm:** Indicates a power failure or other system alert.
- **Link/Act (Ports 1-6):** Solid green indicates a valid network link. Blinking green indicates data activity.
- **Speed (Ports 1-4):** Indicates the connection speed (e.g., 2.5G, 1G, 100M).
- **PoE (Ports 1-4):** Indicates PoE power delivery status.



Figure 8: Front panel of the TI-G50611 showing LED indicators for power, alarm, link/activity, speed, and PoE status.

## 4.2 Network Operation

Once powered on and devices are connected, the switch will automatically detect link speeds and provide Power over Ethernet (PoE) to compatible devices on the PoE-enabled ports. The 60Gbps switching capacity ensures efficient data flow across all connected devices.

## 5. MAINTENANCE

The TRENDnet TI-G50611 is designed for minimal maintenance due to its robust industrial construction.

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to maintain optimal performance and longevity.
- **Firmware Updates:** Check the TRENDnet website periodically for any available firmware updates to ensure the best performance and security.

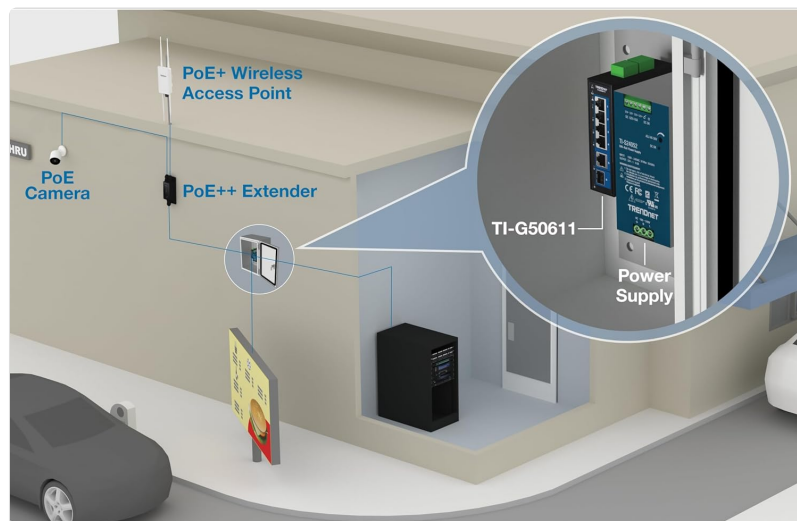


Figure 9: The switch is designed for reliable operation in extreme temperatures.

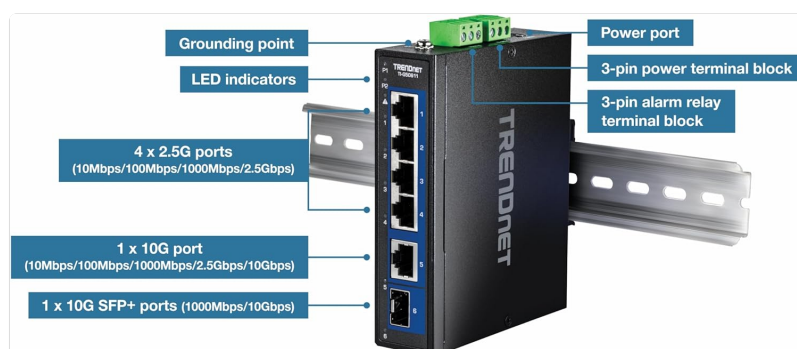


Figure 10: The rugged IP50 rated metal enclosure provides durability.

## 6. TROUBLESHOOTING



## 6.1 Common Issues and Solutions

- **No Power:**
  - Verify the power supply is correctly connected to the terminal block and is providing the correct voltage (12V – 55V DC).
  - Check the power supply unit for proper operation.
  - Ensure the power source is active.
- **No Link/Activity on Port:**
  - Ensure the Ethernet cable is securely connected to both the switch port and the network device.
  - Verify the cable is not damaged.
  - Check the status of the connected network device.
  - For SFP+ ports, ensure the SFP+ module is correctly inserted and compatible.
- **PoE Device Not Receiving Power:**
  - Confirm the connected device is PoE compatible.
  - Check the PoE LED indicator for the specific port.
  - Ensure the total PoE budget of the switch is not exceeded.

## 6.2 Technical Support

If you encounter issues that cannot be resolved with the above steps, please contact TRENDnet's reliable technical support team. Our English-speaking advisors are available during normal business hours to assist you.

## 7. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.7"L x 3.9"W x 1.2"H
Item Weight	1.09 pounds (17.5 Ounces)
Voltage	12V – 55V DC (Dual Redundant Inputs)
Case Material	Metal (IP50 Rated)
Operating Temperature	-40°C to 75°C (-40°F to 167°F)
Interface Type	RJ45, SFP, SFP+
Data Transfer Rate	60 Gigabits Per Second (Switching Capacity)
Number of Ports	6 (4 x 2.5G, 1 x 10G RJ-45, 1 x 10G SFP+)
Included Components	TI-G50611, Quick Installation Guide, Removable terminal blocks, DIN-Rail / wall mount kit

Compatible Devices	Power supply sold separately (models: TI-M6024, 48VDC3000)
Model Number	TI-G50611
UPC	710931162899

## 8. WARRANTY AND SUPPORT

### 8.1 Lifetime Protection

TRENDnet stands by the quality of its products. The TI-G50611 is secured with Lifetime Manufacturer Protection (U.S. and Canada Only).





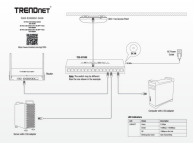

### 8.2 Compliance

This product is NDAA and TAA compliant, meeting U.S. integrity and supply chain standards for government contracts (U.S. and Canada Only).



Figure 11: The TI-G50611 is NDAA and TAA compliant.

## Related Documents - TI-G50611

	<p><a href="#">TRENDnet TI-BG62i User's Guide: Industrial Gigabit Managed PoE++ Switch</a></p> <p>This user's guide provides comprehensive information on the TRENDnet TI-BG62i, a 6-port industrial Gigabit L2+ managed PoE++ DIN-rail switch. It covers installation, configuration, and advanced management features for robust network deployment.</p>
	<p><a href="#">TRENDnet TI-SG704 Industrial 10G PoE++ Splitter Specifications</a></p> <p>Explore the features and specifications of the TRENDnet TI-SG704 Industrial 10G PoE++ Splitter, designed for reliable network power and data distribution in demanding environments.</p>
	<p><a href="#">TRENDnet TI-S48048: 480W 48-56V DC Industrial DIN-Rail Power Supply with PFC</a></p> <p>Datasheet for the TRENDnet TI-S48048, a 480W AC-to-DC industrial DIN-Rail power supply featuring 48-56V DC output, 10A current, active PFC, wide operating temperature, and UL 62368 certification.</p>
	<p><a href="#">TRENDnet Industrial Gigabit L2 Managed Switch Series User's Guide</a></p> <p>Comprehensive user guide for TRENDnet's Industrial Gigabit L2 Managed Rackmount Switch Series, detailing features, installation, configuration, and management for SMB networks. Covers models including TI-RG262i, TI-RP262i, TI-PG102i, TI-G642i, TI-G102i, TI-G160WS, TI-G160i, and TI-PG541i.</p>
	<p><a href="#">TRENDnet TEG-S Series 2.5G Network Switch Quick Installation Guide</a></p> <p>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.</p>
	<p><a href="#">TRENDnet TK-204K/TK-404KR 2/4-Port DVI-KVM Switch User's Guide</a></p> <p>Comprehensive user's guide for the TRENDnet TK-204K and TK-404KR 2/4-port DVI-KVM switches with audio. Learn about installation, operation, specifications, and troubleshooting.</p>