

TRENDnet TI-E100

TRENDnet TI-E100 Industrial Gigabit PoE+ Extender User Manual

1. INTRODUCTION

The TRENDnet TI-E100 Industrial Gigabit PoE+ Extender is designed to extend a single Power over Ethernet (PoE) or PoE+ network connection beyond the standard 100-meter (328 ft.) limit. This device allows for the installation of PoE/PoE+ powered devices at greater distances, up to 200 meters (656 ft.) from the power source, or up to 300 meters (984 ft.) when daisy-chaining two extenders. Its industrial-grade design ensures reliable operation in harsh environments.

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Video 1: Product Overview. This video provides a general overview of the TRENDnet TI-E100 Industrial Gigabit PoE+ Extender, highlighting its key features and benefits.

2. PACKAGE CONTENTS

- TI-E100 Industrial Gigabit PoE+ Extender
- Quick Installation Guide
- DIN-Rail and Wall Mount Kit

3. PRODUCT OVERVIEW

The TI-E100 features a compact, black metal enclosure designed for durability and efficient heat dissipation. It includes a Gigabit PoE+ input port, a Gigabit PoE+ output port, LED indicators for power and PoE status, a grounding point, and options for DIN-Rail or wall mounting.

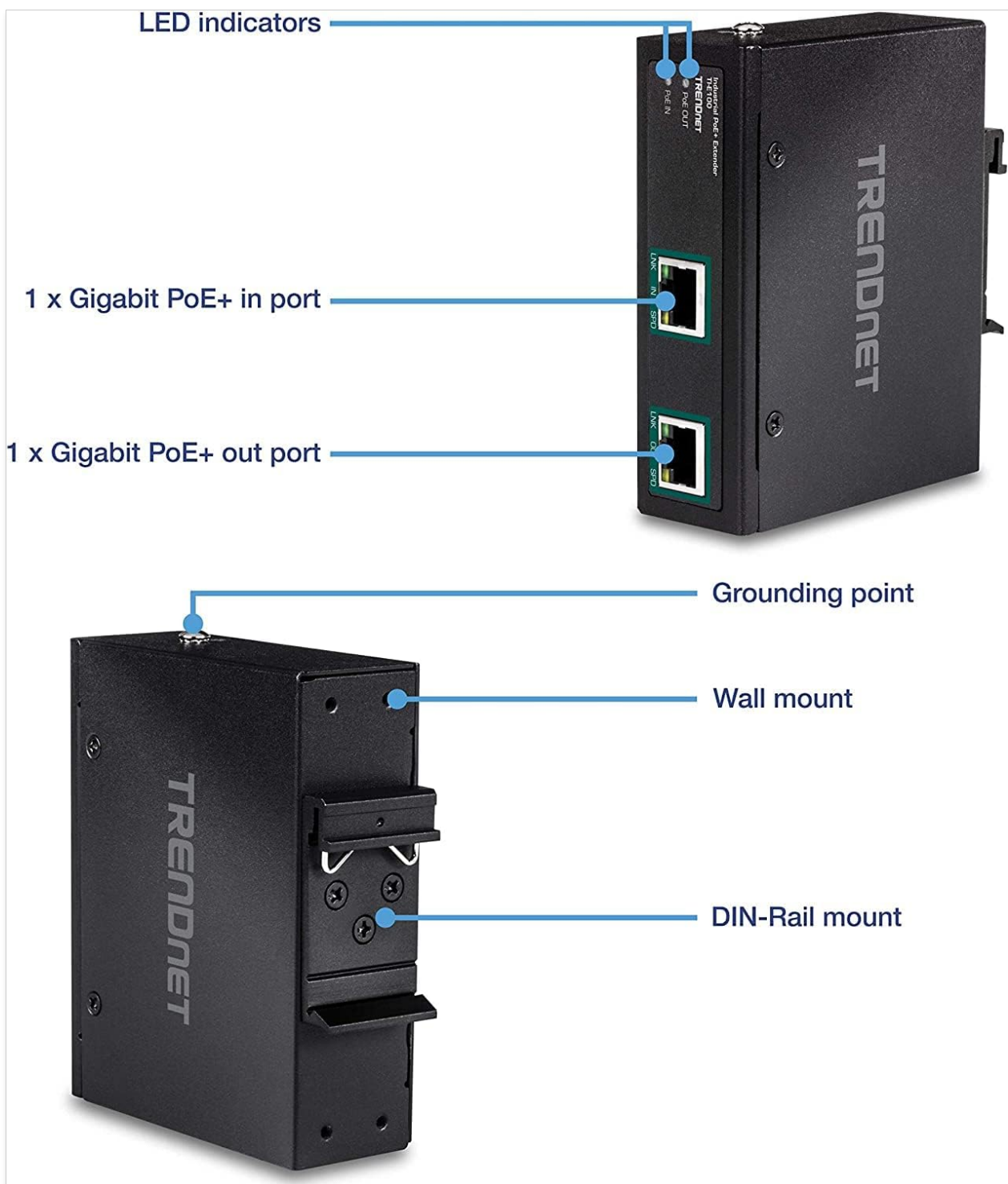


Image 1: Front and side view of the TRENDnet TI-E100 Industrial Gigabit PoE+ Extender. The image highlights the Gigabit PoE+ in port, Gigabit PoE+ out port, LED indicators, grounding point, wall mount, and DIN-Rail mount features.

4. SETUP

4.1 Mounting the Extender

The TI-E100 can be mounted using either the included DIN-Rail mount or wall mount kit. Choose the appropriate method based on your installation environment.

4.1.1 DIN-Rail Mounting

1. Attach the DIN-Rail bracket to the back of the extender using the provided screws.
2. Hook the top edge of the bracket onto the DIN-Rail.
3. Push the bottom edge of the extender towards the rail until it clicks into place.





Image 2: The TRENDnet TI-E100 Industrial Gigabit PoE+ Extender shown mounted on a DIN-Rail, illustrating its secure attachment for industrial environments.

4.1.2 Wall Mounting

1. Attach the wall mount brackets to the sides of the extender using the provided screws.
2. Mark the desired mounting location on the wall.
3. Drill pilot holes and secure the extender to the wall using appropriate screws (not provided).



Image 3: The TRENDnet TI-E100 Industrial Gigabit PoE+ Extender with its wall mount brackets, demonstrating how it can be securely attached to a flat surface.

4.2 Connecting the Extender

1. Connect a PoE/PoE+ enabled Ethernet cable from your Power Sourcing Equipment (PSE), such as a PoE switch or injector, to the **PoE In** port on the TI-E100.
2. Connect an Ethernet cable from the **PoE Out** port on the TI-E100 to your PoE/PoE+ Powered Device (PD), such as an IP camera or wireless access point.
3. Ensure the LED indicators for Power and PoE illuminate, indicating a successful connection and power delivery.

5. OPERATING INSTRUCTIONS

5.1 Power over Ethernet (PoE) Extension

The TI-E100 automatically detects and delivers the correct wattage (15.4W for PoE or 30W for PoE+) to your connected device. It extends the network connection an additional 100 meters (328 ft.), allowing for a total distance of up to 200 meters (656 ft.) from the original PoE power source.

5.2 Daisy-Chaining for Extended Range

For even greater distances, up to two TI-E100 extenders can be daisy-chained. This configuration allows for a total PoE+ network extension of up to 300 meters (984 ft.).



Image 4: Application diagram illustrating two TRENDnet TI-E100 Industrial Gigabit PoE+ Extenders daisy-chained to extend network connectivity and power to a camera and a server room, demonstrating extended range capabilities.

Your browser does not support the video tag.

Video 2: Installation of a Second Camera Using an Existing Cable Run. This video demonstrates a practical application of a PoE extender to add a second camera to an existing network cable run, which is relevant for understanding daisy-chaining and extending PoE capabilities.

6. MAINTENANCE

The TI-E100 is designed for minimal maintenance. Keep the device clean and free from dust. Ensure proper ventilation if installed in an enclosed space. Avoid exposing the device to extreme moisture or temperatures outside its specified operating range.

7. TROUBLESHOOTING

7.1 No Power/Link LED Activity

- **Check PoE Source:** Ensure your PoE switch or injector is powered on and providing PoE/PoE+ power.
- **Cable Integrity:** Verify that all Ethernet cables are securely connected and undamaged. Test cables with a cable tester if available.
- **Device Compatibility:** Confirm that the connected Powered Device (PD) is PoE or PoE+ compatible.
- **Power Budget:** Ensure the total power draw of the PD(s) does not exceed the capabilities of the PoE source or the extender.

7.2 Network Connectivity Issues

- **Cable Length:** While the extender increases range, ensure total cable length (including extender segments) does not exceed the maximum supported distance (200m for single, 300m for daisy-chained).
- **Cable Type:** Use high-quality Ethernet cables (e.g., Cat5e or Cat6) for optimal performance.
- **Interference:** Minimize electromagnetic interference by keeping cables away from power lines or other sources of interference.

8. SPECIFICATIONS

Feature	Description
Model	TI-E100
Device Interface	1 x Gigabit PoE+ In port, 1 x Gigabit PoE+ Out port, LED indicators, DIN-Rail mount, Wall mount, Grounding point
PoE Standard	IEEE 802.3af/at (PoE/PoE+)
Data Transfer Rate	1000 Mbps (Gigabit)
Extension Distance	Up to 100m (328 ft.) per extender, total 200m (656 ft.) with one extender, 300m (984 ft.) with two daisy-chained extenders
Power Output	Auto-sensing PoE (15.4W) or PoE+ (30W)
Industrial Grade Design	IP30 enclosure rating
Operating Temperature	-40° – 75° C (-40° – 167° F)
Dimensions (LxWxH)	4 x 3.1 x 1.25 inches
Weight	5.6 ounces
Compliance	NDAA + TAA Compliant (U.S. and Canada Only)

9. WARRANTY

The TRENDnet TI-E100 Industrial Gigabit PoE+ Extender is backed by a **3-year TRENDnet Manufacturer Protection**. This warranty covers defects in materials and workmanship under normal use.

10. SUPPORT

For technical assistance, product registration, or to download the latest drivers and manuals, please visit the official TRENDnet support website or contact their customer service team. English-speaking technical support is available during normal business hours.

TRENDnet Support Website: www.trendnet.com/support

