Quick Start Guide

2-Port Gigabit Waterproof, Hardened and Tamper-Proof PoE Extender/Repeater

Model: NPOE-EXT-2X1G30

Este manual está disponible en español en la página de Tripp Lite: tripplite.com

Ce manuel est disponible en français sur le site Web de Tripp Lite : tripplite.com

Русскоязычная версия настоящего руководства представлена на веб-сайте компании Tripp Lite по адресу: tripplite.com

Dieses Handbuch ist in deutscher Sprache auf der Tripp Lite-Website verfügbar: tripplite.com

WARRANTY REGISTRATION

Register your product today and be automatically entered to win an ISOBAR® surge protector in our monthly drawing!

tripplite.com/warranty

Package Includes

- NPOE-EXT-2X1G30 2-Port Gigabit PoE Extender
- Wrench
- (x3) Waterproof Connectors
- Quick Start Guide

Product Features

- Supports Power over Ethernet so no external power supply is needed
- Supports true 10/100/1000 Mbps data transmission and PoE power supply distance up to 330 ft. (100 m)
- Includes one RJ45 95W PD input
- Two output ports have Power Sourcing Equipment (PSE) function, with each port supporting up to 30W
- Industrial-quality housing handles harsh environmental conditions with high stability and reliability
- IP67 waterproof rating
- IK10 impact protection rating against tampering and vandalism
- Complies with IEEE 802.3, 802.3u, 802.3ab, 802.3at, 802.3bt and 802.3x standards
- Unit supports plug-and-play operation with no additional configuration needed
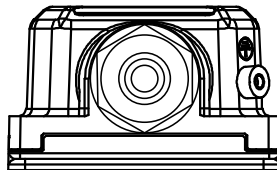
Hardware Description

Front Panel

The front panel includes the PSE output port, input port and LED indicator.
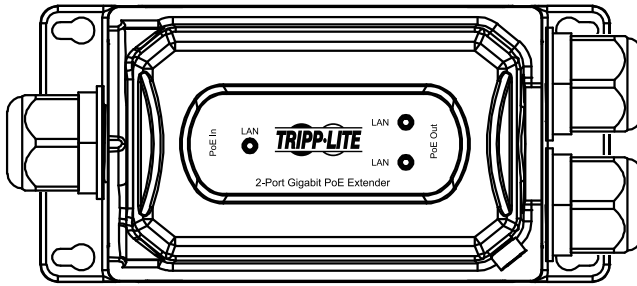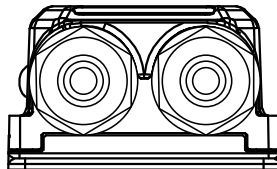

Left Panel

The left panel includes the input port (PoE In) and grounding column with standard network Cat5e cable (line diameter 5.5 mm).

Right Panel

The right panel includes the output port (PoE Out), to be used with a standard network Cat5e cable.


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Installation

Carefully read and follow all instructions to avoid device damage and security threats that could result from incorrect installation.

- The nuts of the waterproof joint should be tightened fully to the joint threads and fit level to the hexagon plane to prevent water from damaging your equipment
- To avoid damage, do not place the unit on an unstable surface
- Make sure the operating voltage is the same one labeled on the unit
- To avoid the risk of electrical shocks, do not open the chassis while the unit is operating or when electrical hazards are present
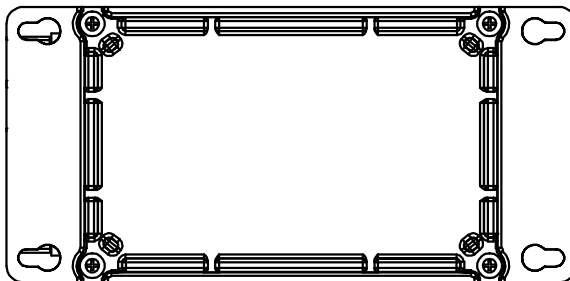
Desktop Installation

To install the unit on a desktop, place the bottom side (shown below) of the unit on a stable, solid surface.
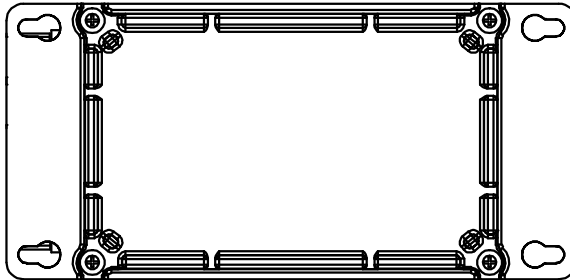
Wall-Mounted Installation

1. Fix four screws (not included) on the wall and turn the unit upside down.
2. Align the four fixing holes of the unit as shown below and mount the unit on the screws.
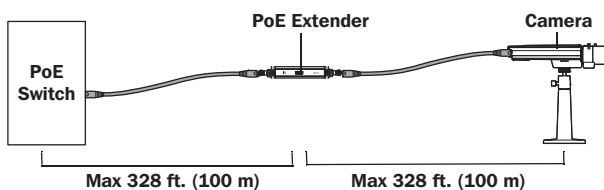
Installation

Single Extender Installation

*Note: Prior to connecting the RJ45 cable to input/output ports, install the included cable glands onto the cable. Refer to **Cable Wire and Crimp Steps** below.*

1. Using a Cat5e/6 cable (up to 328 ft. / 100 m long), connect your powered source device (such as a PoE switch) into the "IN" port on the unit.

2. Using another Cat5e/6 cable (up to 328 ft. / 100 m long), connect your remote PoE powered device (PD), such as a VoIP or IP surveillance camera, into the "OUT" port on the unit.

Notes:

- *Your PoE source must meet or exceed IEEE 802.3at / 802.3af standards.*

- *When power is required, the power source (e.g. midspan or PoE injector) must be installed between the Ethernet switch (non-PoE source) and the first NPOE-EXT-2X1G30 extender.*

- *If you are installing an injector and a splitter, they each need to support 60 to 90W.*

Single Extender Installation Diagram

Single Extender Installation with Midspan Diagram
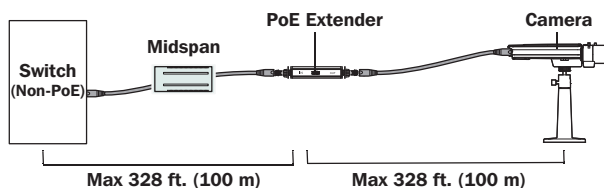
Installation

## Multiple Extender Installation

Notes:
- *You may only cascade three PoE extender units up to 1312 ft. (400 m) in a single installation.*
- *Prior to connecting the RJ45 cable to input/output ports, install the included cable glands onto the cable. Refer to **Cable Wire and Crimp Steps** below.*

1. Using a Cat5e/6 cable (up to 328 ft. / 100 m long), connect your powered source device (such as a PoE switch) into the "IN" port on the unit.

2. Using another Cat5e/6 cable (up to 328 ft. / 100 m long), connect the "OUT" port of the first extender to the "IN" port of the second extender.

3. Repeat Step 2 up to two more times for each additional PoE extender you add, or connect your remote PoE powered device (PD) to the "OUT" port of the second PoE extender.

Notes:
- *The third PoE extender will only supply IEEE 802.3af up to 7W.*
- *Your PoE source must meet or exceed IEEE 802.3at standards.*

Multi-Extender Installation Diagram

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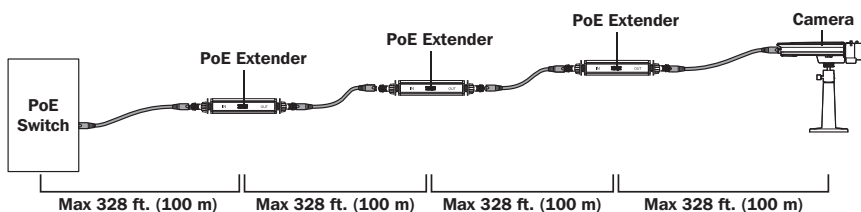
Installation

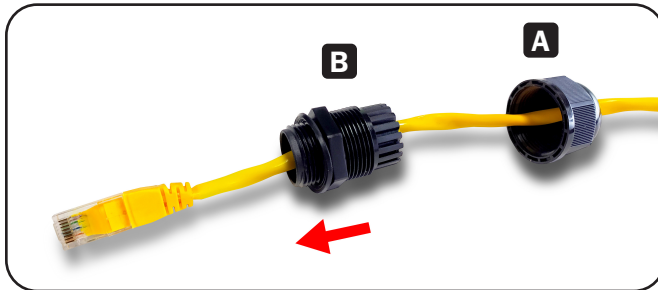## Cable Wire and Crimp Steps

Installing Cable Gland with RJ45 UTP Cable

Step 1: Disassemble the **cable gland** as shown below:

A Clamping Nut

B Body (with washer)

Step 2: Slip the Ethernet cable through the **clamping nut** and **gland body**. Tighten the clamping nut and the body to make the two parts into one complete cable gland.

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Installation

Connecting Waterproof Cable Kit
to the Outdoor PoE Extender

Step 1: Insert the RJ45 connector into the connector of the
PoE++ In Port.
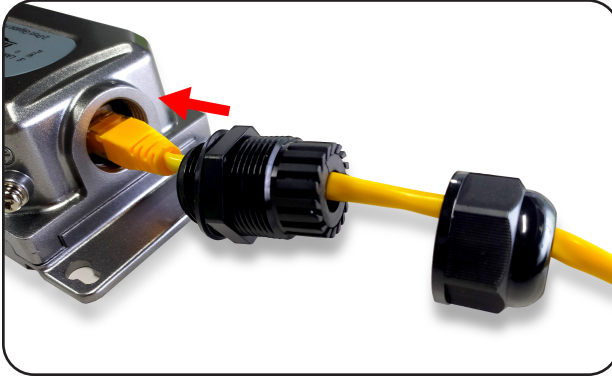
Step 2: Turn clockwise to tighten the **gland body** with the
Outdoor PoE Extender.

Step 3: Attach the **clamping nut** to the cable gland to
complete the cable assembly.

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Installation

Step 4: Repeat **Steps 1 to 3** for two PoE+ Out Ports

Specifications

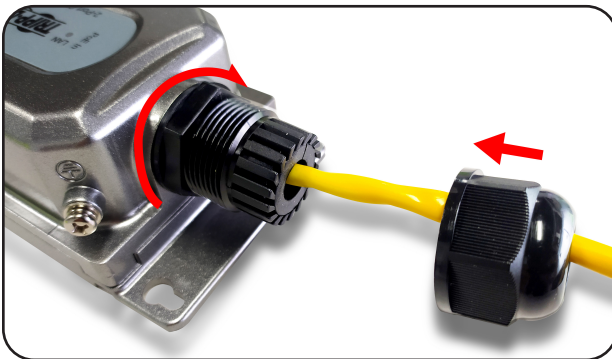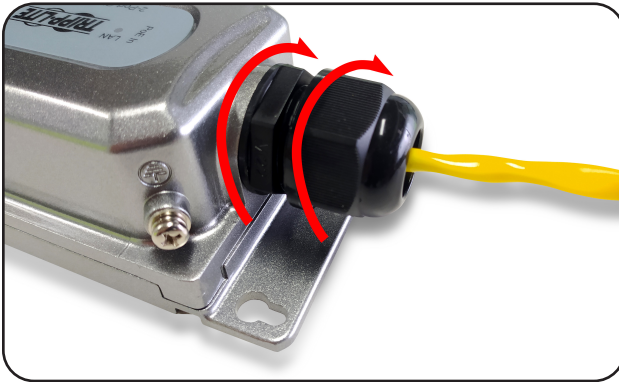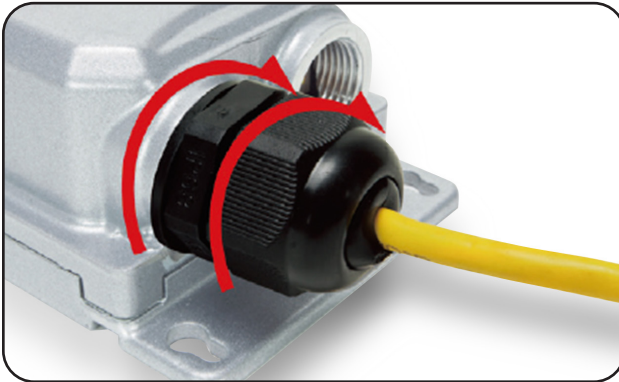| Model	NPOE-EXT-2X1G30
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE80 2.3af , IEEE802.3at, IEEE802.3bt
Ports	PoE In Port: 1 x 10/100/1000 Mbps RJ45 PoE Out Port: 2 x 10/100/1000 Mbps RJ45
Network Media (Cable)	10BASE - T: UTP category 3, 4, 5 cable (≤100m) 100BASE -TX: UTP category 5, 5e cable (≤100m) 1000BASE -TX: UTP category 5e cable (≤100m)
LED Color	Green
LED Functions	Off: No device is connected to the corresponding port Illuminated: Indicates the link through that port is successfully established at 10/100/1000Mbps. Blinking: Transmitting data and power
Dimensions	5.9 x 2.9 x 1.7 in. (150 x 73 x 44 mm)
Weight	0.93 lbs. (0.42 kg)
PoE Ports	2
Power Supply	Power over Ethernet (PoE)
PD Port Input	95W Max
PoE Power Output	48-55V DC Max 30W per port
Operating Temperature Range	-4° to 140°F (-20° to 60℃)
Storage Temperature Range	-40° to 176°F (-40° to 80℃)
Operating Humidity Range	10 to 90% RH, non-condensing
Storage Humidity Range	5 to 90% RH, non-condensing
Surge Protection	Differential Mode: ± 4KV Common Mode: ± 6KV
MTBF	> 50,000 hours
Electrostatic Standard	Contact: 6KV Air: 8KV
Weather Rating	IP67
Impact Protection Rating	IK10

Warranty and Product Registration

3-Year Limited Warranty

Tripp Lite warrants its products to be free from defects in materials and workmanship for a period of three (3) years from the date of initial purchase. Tripp Lite's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from Tripp Lite or an authorized Tripp Lite service center. Products must be returned to Tripp Lite or an authorized Tripp Lite service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment, which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

EXCEPT AS PROVIDED HEREIN, Tripp Lite MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL Tripp Lite BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, Tripp Lite is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

PRODUCT REGISTRATION

Visit tripplite.com/warranty today to register your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!

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FCC Notice, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)

Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

• Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)

• Send the new equipment back for recycling when this ultimately becomes waste

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Warranty and Product Registration

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Photos and illustrations may differ slightly from actual products.

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