

Owner's Manual

1-Port Gigabit PoE/PoE+ Extender

Model: NPOE-EXT-1G30

Este manual esta disponible en español en la página de Tripp Lite:
www.tripplite.com/support

Ce manuel est disponible en français sur le site Web de Tripp Lite :
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Package Includes

- NPOE-EXT-1G30 Gigabit PoE+ Extender
- Owner's Manual

Product Features

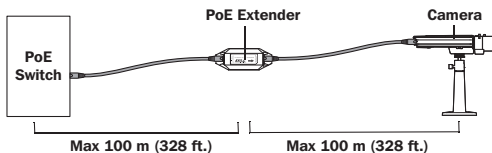
- Save time and money by extending data and power over existing network cables past the 100 m (328 ft.) limit
- Extend a 10/100/1000 Mbps application over longer distances by cascading multiple extenders up to 500 m (1640 ft.)
- Supports all IEEE 802.3at- and IEEE 802.3af-compliant PoE+/PoE devices (wireless LAN access points and bridges, VoIP, IP surveillance cameras)
- Automatically detects and protects PoE/PoE+ equipment from being damaged by incorrect installation (non-PoE devices only receive data)
- Plug and play—no additional power required
- Compact, wall-mountable design

Single Extender Installation

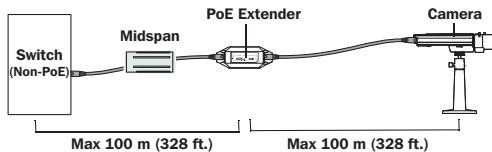
1. Using a Cat5e/6 cable (up to 100 m / 328 ft. long), connect your powered source device (such as a PoE switch) to the “IN” port on the unit.
2. Using another Cat5e/6 cable (up to 100 m / 328 ft. long), connect your remote PoE-powered device (PD) (such as VoIP or IP surveillance camera) to the “OUT” port on the unit. The LEDs will illuminate orange for power and green for signal.

Note: Your PoE source must meet or exceed IEEE 802.3at / 802.3af standards. Please see **Maximum Supported Power** table for more information.

Single Extender Installation Diagram



Single Extender Installation with Midspan Diagram



Note: Where external 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-1G30WP extender.

Multiple Extender Installation

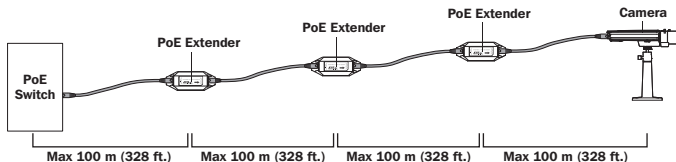
Note: You may only cascade four PoE extender units up to 500 m (1640 ft.) in a single installation.

1. Using a Cat5e/6 cable (up to 100 m / 328 ft. long), connect your powered source device (such as a PoE switch) to the “IN” port on the unit.
2. Using another Cat5e/6 cable (up to 100 m / 328 ft. long), connect the “OUT” port of the first extender to the “IN” port of the second extender.
Note: The green (input) and orange (output) LEDs will illuminate solid to indicate it is receiving sufficient power.
3. Repeat Step 2 up to two more times for each additional PoE extender you wish to add or connect your remote PoE powered device (PD) to the “OUT” port of the second PoE extender.

Notes:

- The 4th PoE extender will only supply IEEE 802.3af up to 12W.
- Your PoE source must meet or exceed IEEE 802.3at / 802.3af standards. Please see **Maximum Supported Power** table for more information.

Multi-Extender Installation Diagram



Multiple Extender Installation

Maximum Supported Power

Multiple PoE Extenders can be connected every 100 m (328 ft.) for greater distances. The actual figures depend on operating conditions. The range is over 24 AWG or heavier Cat5e or Cat6 cable, except where specified.

Examples for low-power PoE devices (PoE Class 1, or require under 4 watts):

| PoE Source | | | |
|-------------------------|--------------------------|--------------------------|--------------------------|
| PoE switch (802.3af) | 15W midspan (802.3af) | PoE+ switch (802.3at) | 30W midspan (802.3at) |
| Maximum Distances | | | |
| 400 m / 1312 ft. | 400 m / 1312 ft. | 500 m / 1640 ft. | 500 m / 1640 ft. |

Examples for medium power PoE Devices (PoE Class 2, or require under 6 watts):

| PoE Source | | | |
|-------------------------|--------------------------|--------------------------|--------------------------|
| PoE switch (802.3af) | 15W midspan (802.3af) | PoE+ switch (802.3at) | 30W midspan (802.3at) |
| Maximum Distances | | | |
| 300 m / 984 ft. | 300 m / 984 ft. | 400 m / 1312 ft. | 400 m / 1312 ft. |

Examples for full-power PoE Devices (PoE Class 0 or 3, or require under 12 watts):

| PoE Source | | | |
|-------------------------|--------------------------|--------------------------|--------------------------|
| PoE switch (802.3af) | 15W midspan (802.3af) | PoE+ switch (802.3at) | 30W midspan (802.3at) |
| Maximum Distances | | | |
| 200 m / 656 ft. | 200 m / 656 ft. | 300 m / 984 ft. | 300 m / 984 ft. |

Multiple Extender Installation

Examples for PoE+ Devices (PoE Class 4 under 22 watts, or 802.3at compliant):

| PoE Source | | | |
|----------------------|-----------------------|-----------------------|-----------------------|
| PoE switch (802.3af) | 15W midspan (802.3af) | PoE+ switch (802.3at) | 30W midspan (802.3at) |
| Maximum Distances | | | |
| Not applicable | Not applicable | 200 m / 656 ft. | 200 m / 656 ft. |

Specifications

| | |
|----------------------|---|
| IEEE Standards | IEEE 802.3af (Power over Ethernet) IEEE 802.3at (High-Power PoE+ Power over Ethernet) IEEE 802.3 (10Base-T Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3u (100Base-TX Fast Ethernet) IEEE 802.3x (Flow control, for full duplex mode) |
| Media Support | 100Base-TX Cat5 UTP/STP RJ45, 8 pin 1000Base-T Cat5e/6 UTP/STP RJ45, 8 pin |
| Ports | (x1) RJ45 10/100/1000 Mbps Data + Power Input port (x1) RJ45 10/100/1000 Mbps Data + Power Output port |
| Protection Functions | Short circuit protection for short GND Overload protections for currents over 0.6A |

Specifications

| | |
|-----------------------|---|
| PoE Pinout Input | IEEE 802.3af/at Standard Mode A Pin 1: DC (-) Pin 2: DC (-) Pin 3: DC (+) Pin 6: DC (+) Pin 7: DC (-) Pin 8: DC (-) Pin 4: DC (+) Pin 5: DC (+) |
| PoE Pinout Output | IEEE 802.3af/at Standard Mode A Pin 1: DC (-) Pin 2: DC (-) Pin 3: DC (+) Pin 6: DC (+) |
| LED | Input: Power On (Green), PoE On (Orange) Output: Power On (Orange), PoE on (Green) |
| Operating Temperature | -10°C to 45°C / 14°F to 113°F |
| Storage Temperature | 20°C to 70°C / -4°F to 158°F |
| Operating Humidity | 0% to 90% RH, Non-Condensing |
| Storage Humidity | 0% to 95% RH, Non-Condensing |
| Unit Dimensions | 145 x 60 x 40 mm / 5.7 x 2.4 x 1.6 in. |

Warranty and Product Registration

3-Year Limited Warranty

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* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

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

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.



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