

Maximum Distances for Power Sources:

Multiple PoE Extenders can be connected every 100 meters to obtain greater distances. The actual figures depend on operating conditions. The range indicated is over 24 AWG or heavier Cat5e or Cat6 cable.

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

| PoE Source | | | |
|---|---|--|---|
| PoE switch (802.3af, Output voltages 50V) | 15W mid-span (802.3af, Output voltages 50V) | PoE+ switch (802.3at, Output voltages 50V) | 30W mid-span (802.3at, Output voltages 50V) |
| Max Distances | | | |
| 200m | 200m | 300m | 300m |

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

| PoE Source | | | |
|---|---|--|---|
| POE switch (802.3af, Output voltages 50V) | 15W mid-span (802.3af, Output voltages 50V) | PoE+ switch (802.3at, Output voltages 50V) | 30W mid-span (802.3at, Output voltages 50V) |
| Max Distances | | | |
| 200m | 200m | 300m | 300m |

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

| PoE Source | | | |
|---|---|--|---|
| POE switch (802.3af, Output voltages 50V) | 15W mid-span (802.3af, Output voltages 50V) | PoE+ switch (802.3at, Output voltages 50V) | 30W mid-span (802.3at, Output voltages 50V) |
| Max Distances | | | |
| N/A | N/A | 300m | 300m |



GIGABIT PoE EXTENDER

Powering your network infrastructure with efficiency and precision



USER MANUAL

POE-EXT-GD-HP

www.tyconsystems.com

Tycon® Gigabit Power-over-Ethernet Extender

Order Information

POE-EXT-GD-HP Outdoor waterproof Gigabit PoE Extender 1 (POE IN) into 1 (POE OUT) 25W

Description

Ethernet and PoE connections both restrict cable distances to 100 meters between network ports. To overcome this distance limit, network installers can simply connect a PoE Extender in-line with the Cat5e or Cat6 Ethernet cable (Outdoor type).

With Gigabit PoE Extender, PD's (such as IP Security Cameras, wireless access points) can be installed at greater distances than 100 meters from one another. By connecting a PoE Extender for every extra 100 meters of cable, both Ethernet and PoE can be extended to 200 additional meters, depending on the PD's power required and the power source used.

This Gigabit PoE Extender does not require any additional power supply and the connected PD is fed by a single PoE switch or mid-span, which simplifies installation. It offers two Gigabit Ethernet ports, which are both configured automatically for link speed, duplex and crossover and full-rate network throughput. The POE IN connection is compatible with Mode A or Mode B PoE Switches (12.36 or 45.78 pinout). Supports IEEE802.3af/at at the POE OUT port. PoE total power can reach 25w with a PoE+ (802.3at) input.

Features

- Compatible with IEEE802.3af and IEEE802.3at
- Extends the range of PoE and Gigabit Ethernet an additional 100 meters
No additional power supply is required
- Automatically detects and protects PoE equipment from being damaged by incorrect installation
- Gigabit full-rate network throughout the entire extended distance
- Wall-mount design
- Easy plug-and-play installation
- Complies with IP66 (rain-proof when used with outdoor waterproof UTP cable).

Specifications:

| Item | Description |
|----------------------------|---|
| No. of channels | 1 (POE IN) into 1 (POE OUT) |
| Pass Through Data Rates | 10/100/1000 Mbps half/full duplex |
| Power over Ethernet input | Pin Assignment and Polarity: Both 1/2, 3/6 and 4/5, 7/8 |
| Power over Ethernet Output | Pin Assignment and Polarity: 1/2 (+), 3/6 (-) Output Power: up to 25W |
| Connectors | Waterproof RJ-45, EIA 568A and 568B |
| Network cables | Outdoor type Shielded category 5e (or higher) |
| Dimensions | 185mm x 45mm x 45mm |
| Mounting | Wall or Desktop or Pole |
| Environment | Indoor or Outdoor |
| Environmental Conditions | <ul style="list-style-type: none"> • Operating Ambient Temperature: -25 to 55C • Operating Humidity: 100% • Storage Temperature: -40 to 70 C |
| Regulatory Compliance | IEEE 802.3af (POE), IEEE 802.3at (POE+) |

Application:

