

## STR301

Ethernet and PoE connections both restrict cable distances to 100 meters between network ports. To overcome this distance limit, network installers can simply connect an PoE Extender in-line with the Cat-5e or Cat-6 cable. With PoE Extender, PDs (such as IP Security Cameras, VoIP telephones, wireless access points) can be installed at greater more than 100 meters from one another. By connecting PoE Extender for every extra 100 meters of cable, both Ethernet and PoE can be extended to 200 meters, 300 meters, or even greater distances, depending on PDs power required and power source. Gigabit PoE Extender does not require any additional power supply and the connected PDs is fed by a single PoE switch or mid-span, which simplifies installation. PoE Extender offers two Ethernet ports, which are both configured automatically for link speed, duplex and crossover and the full-rate network throughput is main-tained.

### Features:

- > Compatible with 10/100/1000Mbps Ethernet
- > Compatible with IEEE802.3af and IEEE802.3at
- > Extends the range of PoE and Ethernet an additional 100 meters
- > No additional power supply is required
- > Automatically detects and protects PoE equipments from being
- > damaged by incorrect installation
- > Full-rate network throughout the whole extended distance
- > Compact size, Wall-Mountable design
- > Easy plug-and-play installation

### Specifications:

**No. of channels :** 1

**Pass Through Data Rates:** 10/100/1000 Mbps half/full duplex

**Pin Assignment and Polarity:** Both 1/2 (-), 3/6 (+) and 7/8 (-), 4/5 (+)

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**Output Power:** up to 22W

**Indicators:** LED indicators are located on the RJ45 connector

**Power indicator:** PoE enabled

**Network indicator:** Link/Act

**Connectors:** Shielded RJ-45, EIA 568A and 568B

**Network cables:** Shielded category 5 (or higher)

**Dimensions:** 145mm x 60mm x 40mm

**Mounting:** Wall of shelf

**Environment:** Indoor or Outdoor

**Operating Ambient Temperature:** -10 to 45°C

**Operating Humidity:** Maximum 90%, Non-condensing

**Storage Temperature:** -20 to 60°C

**Storage Humidity:** Maximum 95%, Non-condensing

**Regulatory Compliance:** IEEE 802.3af (PoE), IEEE 802.3at (PoE+)



**Gigabit Extender  
Power-over-Ethernet**

### 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 is over 24AWG or heavier Cat-5e or Cat-6 cable except where specified.

#### ① Examples for medium power PoE Devices (that are PoE Class 2, or require under 6 watts)

- > PoE switch(802.3af, Output voltages 50V):  
Max Distances 300m
- > 15W mid-span(802.3af, Output voltages 50V):  
Max Distances 300m
- > PoE+ switch(802.3at, Output voltages 50V):  
Max Distances 400m
- > 30W mid-span(802.3at, Output voltages 50V):  
Max Distances 400m

#### ② Examples for full power PoE Devices (that are PoE Class 0 or 3, or require under 12 watts) >

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

#### ③ Examples for PoE+ Devices (that are PoE Class 4 that under 22 watts, or 802.3at compliant)

- > PoE switch(802.3af, Output voltages 50V):  
Not applicable
- > 15W mid-span(802.3af, Output voltages 50V):  
Not applicable
- > PoE+ switch (802.3at, Output voltages 50V):  
Max Distances 200m
- > 30W mid-span(802.3at, Output voltages 50V):  
Max Distances 200m

### Application Example:

