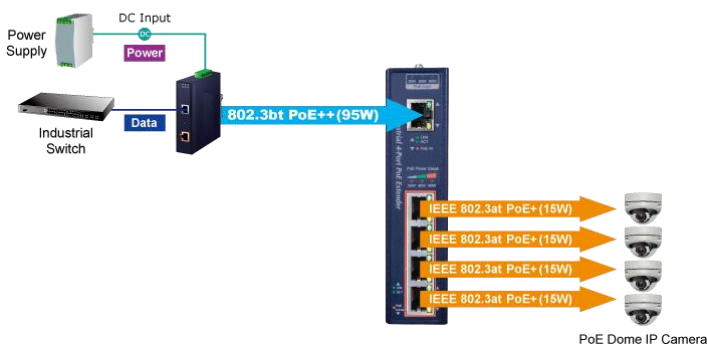
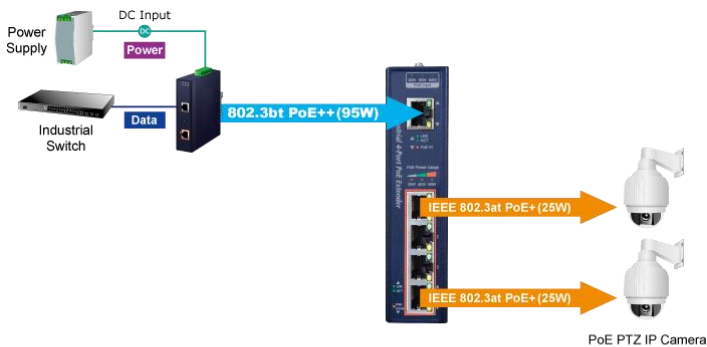


Industrial 1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender



PoE Solution for Long-reach Distance

The industrial 1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender designed especially for the point to multipoint PoE application. The Gigabit PoE Extender can obtain a maximum of 95-watt PoE power from 802.3bt PoE++ input port and supplies a maximum of 75-watt PoE power budget for 4 PoE output ports, extending both the reach of **Gigabit Ethernet Data and IEEE 802.3at Power over Ethernet** over the standard 100m (328 ft.) Cat. 5/5e/6 UTP cable to 200m where up to 4 powered devices (PDs) can be powered at the same time. The Gigabit PoE Extender provides a simple solution for adding PoE ports without running more cabling and achieves more flexible network applications without requiring an external power adapter.



Physical Port

- **Five 10/100/1000BASE-T** Gigabit RJ45 interfaces

- 1-port data + power input
- 4-port data + power output

Power over Ethernet

- 1-port data + power input

- Complies with 802.3bt Power over Ethernet Plus Plus end-span and mid-span PD
- Complies with IEEE 802.3at Power over Ethernet Plus end-span/mid-span PD
- Supports PoE input power up to 95 watts

- 4-port data + power output

- Complies with IEEE 802.3af/at PoE/end-span PSE
- Up to 4 IEEE 802.3af/at devices powered
- Supports PoE power up to 30 watts for each PoE port
- Auto detects powered device (PD)

- Extends the range of PoE to an additional 100 meters (328ft.)
- Forwards both Ethernet **data** and **PoE** power to remote device

Layer 2 Features

- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Integrates address look-up engine, supporting 2K absolute MAC addresses
- 9K jumbo frame support in 1000Mbps duplex mode
- Automatic address learning and address aging

Industrial Case and Installation

- IP30 metal case
- DIN-rail and wall-mount designs
- Supports 6000V DC Ethernet ESD protection
- -40 to 75 degrees C operating temperature
- No external power cable required for installation
- **Plug and Play** installation

Environmentally-hardened Design

With industrial-grade IP30 metal case, the Gigabit PoE Extender provides a high level of immunity against electromagnetic interference and heavy electrical surges which are usually found on plant floors or in curb-side traffic control cabinets. Being able to operate under the temperature range from **-40 to 75 degrees C**, the Gigabit PoE Extender can be placed in almost any difficult environment.



Intelligent LED Indicator for Real-time PoE Usage

The Gigabit PoE Extender helps users to monitor the current status of PoE power usage easily by its advanced LED indication. Called "**PoE Power Usage**" shown in percentage, the front panel of the Gigabit PoE Extender has three LEDs indicating **20, 40 and 60** watts of PoE power usage. With these LED indications, you can monitor the PoE power status of the Gigabit PoE Extender efficiently.



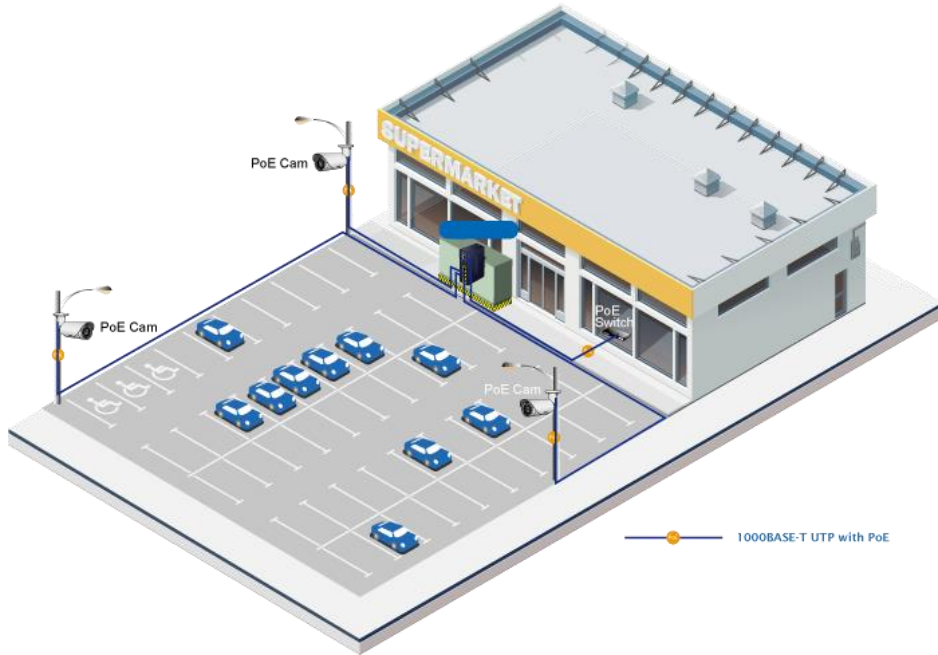
Plug and Play, Easy Cabling Installation

The Gigabit PoE Extender can be easily installed by way of Plug and Play. It is used between a power source equipment (PSE) and the PD. The Gigabit PoE Extender injects power to the PD without affecting the data transmission performance. The Gigabit PoE Extender offers a cost-effective and quick solution to doubling the standard range of PoE from 100 to 200 meters. The Gigabit PoE Extender is designed in a compact box containing 5 RJ45 ports, of which 1 "**PoE IN**" port functions as **PoE (Data and Power) input** and 4 "**PoE OUT**" ports on the other side functions as **PoE (Data and Power) output**. The "**PoE OUT**" port is also the power injector where DC voltage is transmitted over Cat. 5/5e/6 cable, and data and power are simultaneously transferred between the PSE and PD.

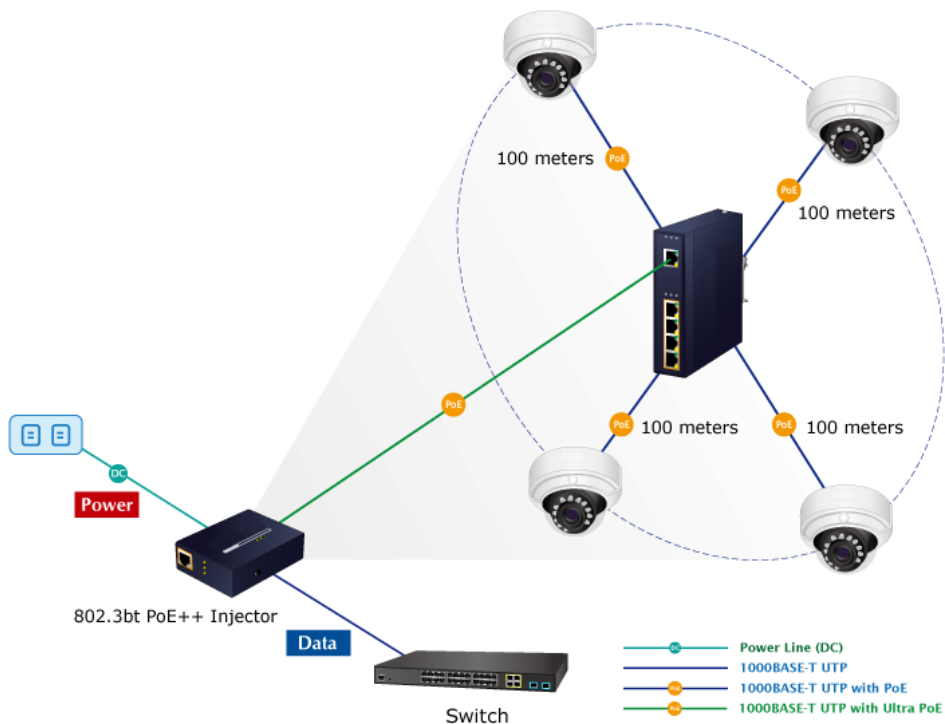
Applications

One Power Source for Multi Powered Devices

Is 100-meter cable long enough for a wide range of IP surveillance deployments? The answer is certainly not. To achieve the benefits of IP surveillance where IP cameras are installed in a remote location, the Gigabit PoE Extender is very useful for expanding the network already set up without worrying about the cabling distance limitation. In contrast, the conventional networking does not have the flexibility of network expansion.



The industrial 1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender requires very little installation time and does not require any additional setup or programming by using standard RJ45 cable from power sourcing device, such as 802.3bt PoE++ injector supplying 802.3bt PoE++ power, to the Gigabit PoE Extender and converting power for 4 powered devices that are IEEE 802.3af/at PoE standard compliant, meaning any additional power adapter for IP cameras and wireless access points is not necessary.



Specifications

| Hardware Specifications | |
|-------------------------------|--|
| Network Connector | PoE In Port - 1 x 10/100/1000BASE-T Ethernet with 802.3bt PoE++ "Data + DC" in - Auto MDI/MDI-X, auto-negotiation RJ45 connector PoE Out Port - 4 x 10/100/1000BASE-T Ethernet with IEEE 802.3af/at PoE "Data + DC" out - Auto MDI/MDI-X, auto-negotiation RJ45 connector |
| Switch Architecture | Store-and-Forward switch architecture |
| MAC Address Table | 2K MAC address table with auto learning function |
| Switch Fabric | 10Gbps |
| Switch Throughput | 7.44Mpps @ 64Bytes |
| Flow Control | IEEE 802.3x pause frame for full duplex Back pressure for half duplex |
| Jumbo Frame | 9Kbytes |
| ESD Protection | Air 8KV DC Contact 6KV DC |
| Surge Protection | 6KV |
| Enclosure | IP30 metal case |
| Installation | DIN-rail kit and wall-mount ear |
| Dimensions (W x D x H) | 32 x 87.8 x 135 mm |
| Weignt | 430g |
| Power Consumption | 5.6 watts/19.11 BTU (Power On) 6.5 watts/22.18 BTU (Full loading without PoE function) 82.3 watts/280.82 BTU (Full loading with PoE function) |
| Power over Ethernet | |
| PoE Standard | PoE in Port - IEEE 802.3bt PoE++ Type 4 standard PD - PoH (Power over HDBASE-T) - IEEE 802.3at PoE+ end-span/mid-span PD Per PoE out Port - IEEE 802.3at Power over Ethernet Plus end-span PSE |
| PoE Power | PoE in Port - 50~57V DC, max. 95 watts Per PoE out Port - 44~55V DC, max. 30.8 watts |
| Power Pin Assignment | PoE in Port - 1/2(-), 3/6(+), 4/5(+), 7/8(-) or 1/2(+), 3/6(-), 4/5(+), 7/8(-) Per PoE out Port - 1/2(+), 3/6(-) |
| PoE Power Budget | 75 watts (max.) @ 802.3bt PoE++ Type 4 input 60 watts (max.) @ 802.3bt PoE++ Type 3 input 75 watts (max.) @ PoH input 25 watts (max.) @ 802.3at PoE+ input |
| Standards Conformance | |
| Regulatory Compliance | FCC Part 15 Class A, CE |
| Stability Testing | IEC60068-2-32 free fall IEC60068-2-27 shock IEC60068-2-6 vibration |
| Standards Compliance | IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3bt Power over Ethernet Plus Plus IEEE 802.3az Energy Efficient Ethernet(EEE) |
| Environment | |
| Operating | Temperature: -40 ~ 75 degrees C Relative Humidity: 5 ~ 95% (non-condensing) |
| Storage | Temperature: -40 ~ 85 degrees C Relative Humidity: 5 ~ 95% (non-condensing) |

