

# Industrial Single-Port Multi-Gigabit 802.3bt PoE++ Injector



#### Advanced Industrial Multi-Gigabit and 802.3bt PoE++ Network Solution

PLANET IPOE-171-60W and IPOE-171-95W are **Single-Port Industrial 802.3bt Power over Ethernet Injectors** with a maximum of up to **60 watts and 95 watts**of power output over Ethernet cables, respectively. They are equipped with two **100M/1G/2.5G/5GBASE-T** RJ45 copper ports that can handle extremely large amounts of data transmission.



They are designed specifically to meet the demand for growing higher power required network equipment such as:

- Lighting
- All-in-one touch PC
- Remote digital signage display
- Other network devices that need higher power to work normally



#### Interface

- 2 Multi-Gigabit RJ45 interfaces
  - 1-port Data + Power output
  - 1-port Data input
- IPOE-171-60W is equipped with 1 terminal block for master and slave power input. (Power Range: 48 ~ 54V DC redundant power)
- IPOE-171-95W is equipped with 1 terminal block for master and slave power input. (Power Range: 12 ~ 54V DC redundant power)
- 1 PoE mode (standard/legacy and force) DIP switch

#### Power over Ethernet

- Complies with IEEE 802.3at/bt PoE end-span/mid-span PSE
- IPOE-171-60W supports PoE power up to 60 watts for PoE port
- IPOE-171-95W supports PoE power up to 95 watts for PoE port
- Auto-detection of PoE IEEE 802.3at/bt equipment and devices from being damaged by incorrect installation
- Monitors the status of the total PoE usage in real time
- Remote power feeding up to 100m

#### Hardware

- IP30 slim type metal case
- LED indicators for Power LED, PoE-in-Use LED and PoE Usage LED

#### Industrial Case and Installation

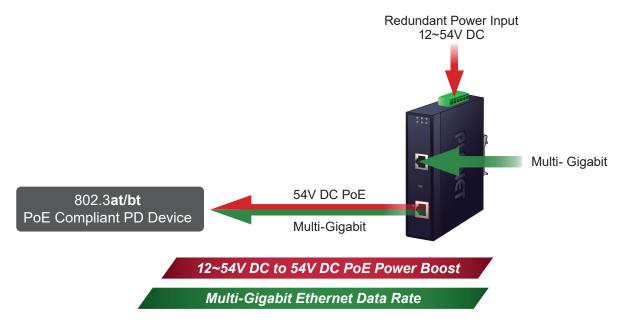
- · Solid wall mount or DIN-rail mount installation
- Supports 6KV DC Ethernet ESD protection
- -40 to 75 degrees C operating temperature



The IPOE-171-60W delivers the Ethernet digital data with DC power over the twisted-pair cables as a 60-watt Power over Ethernet Injector while the IPOE-171-95W delivers the Ethernet digital data with 54V DC power over the twisted-pair cables as a 95-watt Power over Ethernet Injector. PLANET IPOE-173S **802.3bt PoE++ splitter** connected the injector splits the digital data and the power into three optional outputs (12V/24/54V DC) with distance up to 100 meters.

#### Convenient and Reliable Power System

To facilitate the 802.3bt PoE++ usage with commonly used 12~54V DC power input for transportation and industrial-level applications, the IPOE-171-95W adopts 12~54V DC to 54V power boost technology to solve power source issue but does not require special power supplies. The IPOE-171-95W provides an integrated power solution with a wide range of voltages (12~54V DC) for worldwide operability. It also provides dual-redundant, reversible polarity 12~54V DC power supply inputs for high availability applications.



#### 60 watts/95 watts of Power over 4-pair UTP

Instead of delivering power over 2-pair twisted UTP – be it end-span (Pins 1, 2, 3 and 6) or mid-span (Pins 4, 5, 7 and 8), the IPOE-171 series provides the capability to source up to 60 watts/95 watts of power by using all the four pairs of standard Cat. 5e/6 Ethernet cabling.

Power

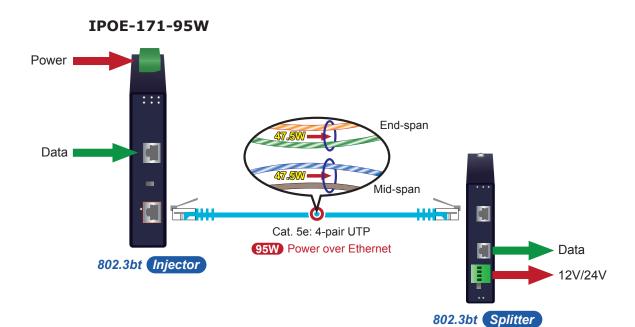
Cat. 5e: 4-pair UTP

60W Power over Ethernet

802.3bt Injector

Box Splitter





IEEE 802.3af IEEE 802.3at IEEE 802.3bt IEEE 802.3bt PoE Standard (802.3at Type 1) (802.3at Type 2) (802.3bt Type 3) (802.3bt Type 4) 95 watts 60 watts Maximum Power delivered by PSE 15.4 watts 30 watts Power Available at PD 12.95 watts 25.5 watts 51 watts 71 watts Voltage Range 48V 50~57V 52~57V 52~57V Twisted-pair Used 4-pair 2-pair 4-pair Supported Modes End-span or Mid-span End-span + Mid-span End-span + Mid-span Cat. 3/5/5e/6/6A Cat. 5e/6/6A Supported Cabling Cat. 5e/6/6A

#### Intelligent LED Indicator for Power Input and Real-time PoE Usage

The IPOE-171 series helps users to monitor the current status of power input and PoE power usage easily and efficiently via its advanced LED indication. "Power Input" allows user to know the status of power input. "PoE Power Usage" displayed on the panel of the IPOE-171 series has three LED indicators of different power usages. Via the power usage LED, the IPOE-171 series enables the administrator to monitor the status of the power usage of the connected PDs in real time.

#### Power Input and PoE Power Usage Display





#### High Compatibility and Compact Size Design

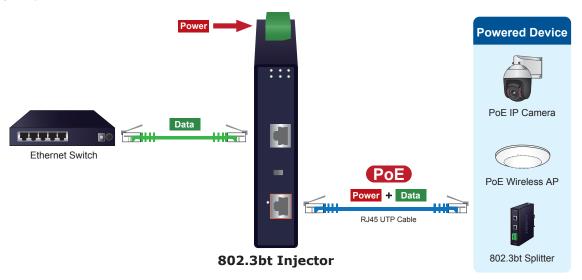
It is easy to install the PoE injector by way of **Plug and Play** and comes with simple troubleshooting, making it easy for business and home users to own it. Besides, the IPOE-171 series comes in compact housing, and provides two DC redundant power inputs, two power LEDs, alarm LED and PoE-in-Use LED. Two RJ45 ports -- Ethernet port and Ethernet + DC port - are on the front panel.

Moreover, the IPOE-171 series, when switched to the Legacy mode and Force mode, provides power to those PD devices which do not fully follow the IEEE 802.3at/bt standard. It is helpful to enhance the compatibility of IPOE-171 series with other PDs.

Simply plug in the Ethernet cables and DC power wire, and the IPOE-171 series is ready to provide high-speed network communication and the 802.3bt PoE injector functions simultaneously with no need of software configuration.

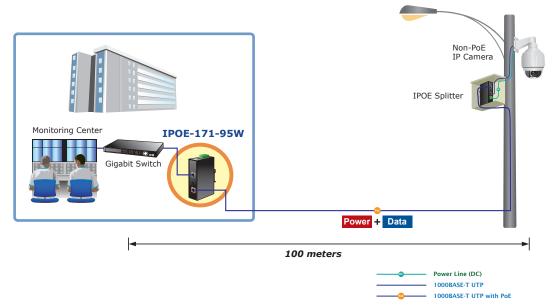
#### Quick and Easy Cabling Installation for PoE Network Deployment

Backward compatible with both 802.3at PoE standards, the IPOE-171 series allows users to flexibly deploy standard and high powered devices to transfer data and power simultaneously through one Ethernet cable for up to 100 meters. The IPOE-171 series frees the security IP camera and wireless AP deployment from restrictions of power outlet locations and the additional AC wiring. It thus reduces cables and eliminates the need for electrical outlets on the wall, ceiling or any unreachable place, and most of all, it reduces installation time.



#### Stable Operating Performance under Difficult Environments

Today, the PoE demand expands from commercial applications to many critical networks in the harsh environment. The IPOE-171 series will be one of the ideal solutions that provide a high level of immunity against electromagnetic interference and heavy electrical surges typical of environments found on plant floors or in curb side traffic control cabinets. The IPOE-171 series can operate stably under temperature range from -40 to 75 degrees C which enables the users to conveniently apply the device in almost any location of the network. The IPOE-171 series is also equipped with a compact IP30 standard metal case that allows either DIN-rail or wall mounting for efficient use of cabinet space.

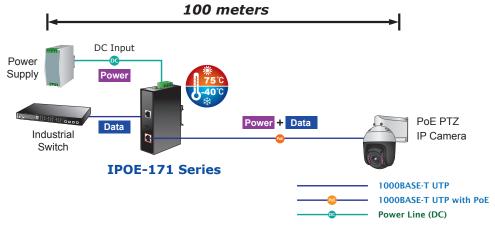




## **Applications**

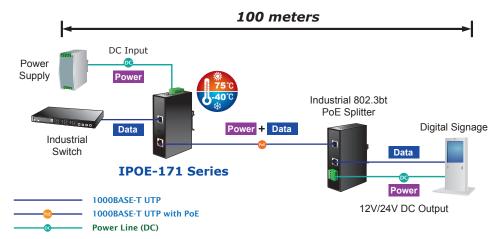
#### Installation of 802.3bt PoE Injector

Due to the backward capability of IEEE 802.3at PoE standard, the IPOE-171 series can directly connect with any IEEE 802.3at end-nodes, such as PTZ (pan, tilt & zoom) speed dome IP cameras, color touch-screen Voice over IP (VoIP) telephones, and multi-channel wireless LAN access points.



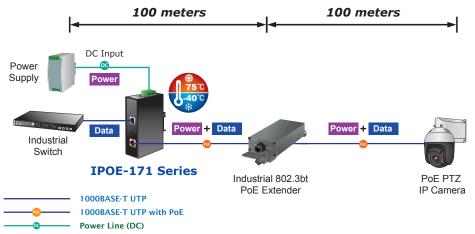
#### Installation of 802.3bt PoE Injector and Splitter

For a place which is hard to find the power inlet, the IPOE-171 series and IPOE-173S operate as a pair to provide the easiest way to power your Ethernet devices which need high power input, such as PTZ network cameras, PTZ speed dome cameras, color touch-screen Voice over IP (VoIP) telephones, and multi-channel wireless LAN access points installed on the top of the building or used in enterprise office or home.



#### Extended Installation of IEEE 802.3bt Injector and PoE Network

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 and also the long-distance IP camera distribution, the IPOE-171 series and PLANET PoE Extender, IPOE-E302, can be a quick and cost-effective option. In the simplest application, the PoE Extender enables a PoE IP camera to be installed up to 200 meters away from the IPOE-171 series. The IPOE-171 series delivers PoE power over the first 100 meters to the PoE Extender over UTP cables, and then the PoE Extender forwards the Ethernet data and remaining PoE power to the remote PoE IP cameras.





# Specifications

| Dec L   |   |  |  |  |  |
|---|---|--|--|--|--|
| Product   |   | IPOE-171-60W   | IPOE-171-95W   |  |  |
| Hardware S  | Specifications  |  |  |  |  |
|   | Input Port  | 1 x RJ45 STP   | 1 x RJ45 STP   |  |  |
| Interface   | input Port  | Data In  |  |  |  |
|   | Output Port   | 1 x RJ45 STP   |  |  |  |
|   | Output Port   | PoE (Data + Power) Out   |  |  |  |
|   | Input power terminal block  | 1  |  |  |  |
| Data Rate   |   | 10M/100M/1G/2.5G/5Gbps   |  |  |  |
| DIP Switch  |   | Standard (802.3bt PoE++ mode)/Legacy Mode  |  |  |  |
| Alarm   |   | Provides one relay output for power failure  |  |  |  |
| Alarm   |   | Alarm Relay current carry ability: 1A @ DC 24V   |  |  |  |
| Enclosure   |   | IP30 slim type metal case  |  |  |  |
| Dimensions (W x D x H)  |   | 135 x 87.8 x 32 mm   |  |  |  |
| Weight  |   | 406g   | 443g   |  |  |
| Power Requirements  |   | DC 48~54V, 2A max.   | DC 12~54V, 6A max.   |  |  |
| Unit Output Voltage   |   | DC 45~53V  | DC 54V   |  |  |
| Power Con   | nsumption   | 75 watts max.  | 120 watts max.   |  |  |
| No. of devi   | ices that can be powered  | 1  |  |  |  |
| ESD Prote   | ection  | 6KV DC   |  |  |  |
| Installation  | ı   | DIN-rail kit or wall-mount ear   |  |  |  |
|   |   | System: Power 1 (Green), Power 2 (Green), Alai   | rm (Red)   |  |  |
| LED Indica  | ators   | PoE Port: PoE-in-Use x 1 (Amber)   | . ,  |  |  |
|   |   | PoE Usage: PoE Usage x 3 (Amber)   |  |  |  |
|   |   | Twisted-pair cable up to 100 meters (328ft)  |  |  |  |
| Network Cable   |   | 10BASE-T: 4-pair UTP Cat. 3, 4, 5, 5e, 6, 6A   |  |  |  |
|   |   | 100BASE-TX: 4-pair UTP Cat. 5, 5e, 6, 6A   |  |  |  |
|   |   | 1G/2.5G: 4-pair UTP Cat. 5e, 6, 6A   |  |  |  |
|   |   | 5G: 4-pair UTP Cat. 6, 6A  |  |  |  |
| Power over  | er Ethernet   |  |  |  |  |
| PoE Standard  |   | IEEE 802.3at/bt PSE  | IEEE 802.3at/bt PSE  |  |  |
| PoE Power Output Budget   |   | DC 50~53V / 60-watt PoE via 4-pair   | DC 54V / 95-watt PoE via 4-pair  |  |  |
|   |   | DC 45~53V / 30-watt PoE via 2-pair   | DC 54V / 36-watt PoE via 2-pair  |  |  |
|   |   |  | DC 24V~54V input:  |  |  |
|   |   |  | Max. 89.5W@1m cable  |  |  |
|   |   | Max. 60W@1 m cable   | Max. 75W@100m cable  |  |  |
| PoE Power Output  |   | Max. 51W@100m cable  | DC 12V input:  |  |  |
| . OL 1 000  | •   |  | Max. 60W@1m cable  |  |  |
| . 321 0W6   | ·   |  |  |  |  |
| . 021 OWE   |   |  | Max. 52W@100m cable  |  |  |
|   | r Supply Type   | End-span + Mid-span  |  |  |  |
| PoE Power   | er Supply Type  | End-span + Mid-span Pair 1 End-span: 1/2 (-), 3/6 (+)  | Max. 52W@100m cable  |  |  |
| PoE Power   |   |  | Max. 52W@100m cable End-span + Mid-span  |  |  |
| PoE Power Power Pin   | er Supply Type<br>Assignment  | Pair 1 End-span: 1/2 (-), 3/6 (+)  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  |  |  |
| PoE Power   | er Supply Type<br>Assignment  | Pair 1 End-span: 1/2 (-), 3/6 (+)<br>Pair 2 Mid-span: 4/5 (+), 7/8 (-)   | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)                                       |  |  |
| PoE Power Power Pin PoE Mode  | er Supply Type<br>Assignment  | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode                        |  |  |
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| PoE Power Pin PoE Mode Standards  | er Supply Type Assignment Conformance   | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet   | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode                        |  |  |
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| PoE Power Pin PoE Mode Standards  | er Supply Type Assignment Conformance   | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Pin PoE Mode Standards  | er Supply Type Assignment Conformance   | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T   | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Pin PoE Mode Standards Standards  | Assignment  Conformance  Compliance   | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Pin PoE Mode Standards Standards  | Assignment  Conformance  Compliance   | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Power Pin PoE Mode Standards Standards Regulatory Environment   | Assignment Conformance Compliance y Compliance  | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bt 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Power Pin PoE Mode Standards Standards Regulatory Environmen Operating  | Assignment Conformance Compliance y Compliance ent Temperature  | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Power Pin PoE Mode Standards Standards Regulatory Environmen Operating Storage Te                                 | Assignment  Conformance  Compliance  y Compliance ent Temperature emperature                                | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  -40 ~ 75 degrees C -40 ~ 85 degrees C   | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Power Pin PoE Mode Standards Standards Regulatory Environmen Operating Storage Te Operating                       | Assignment  Conformance  Compliance  y Compliance  ent  Temperature emperature Humidity                     | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bt 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  -40 ~ 75 degrees C -40 ~ 85 degrees C 5 ~ 90%, relative humidity, non-condensing  | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Power Pin PoE Mode Standards Standards  Regulatory Environment Operating Storage Te Operating Storage Hu          | Assignment  Conformance  Compliance  y Compliance  ent  Temperature emperature Humidity                     | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  -40 ~ 75 degrees C -40 ~ 85 degrees C   | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
| PoE Power Power Pin PoE Mode Standards Standards  Regulatory Environment Operating Storage Te Operating Storage Hu          | Assignment  Conformance  Compliance  y Compliance  ent  Temperature emperature Humidity umidity             | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  -40 ~ 75 degrees C -40 ~ 85 degrees C 5 ~ 90%, relative humidity, non-condensing 5 ~ 90%, relative humidity, non-condensing | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |
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| PoE Power Power Pin PoE Mode Standards Standards Regulatory Environmen Operating Storage Te Operating Storage Hu            | Assignment  Conformance  Compliance  y Compliance  ent  Temperature emperature Humidity umidity Accessories | Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) Standard mode Legacy and Force mode  IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3bt 4-pair Power over Ethernet Plus P IEEE 802.3at Power over Ethernet Plus FCC Part 15 Class A, CE  -40 ~ 75 degrees C -40 ~ 85 degrees C 5 ~ 90%, relative humidity, non-condensing 5 ~ 90%, relative humidity, non-condensing | Max. 52W@100m cable  End-span + Mid-span  Pair 1 End-span: 1/2 (-), 3/6 (+)  Pair 2 Mid-span: 4/5 (+), 7/8 (-)  Standard mode  Legacy and Force mode |  |  |



## **Ordering Information**

| IPOE-171-60W | Industrial Single-Port Multi-Gigabit 802.3bt PoE++ Injector (60 Watts, -40~75 degrees C, 48~54VDC)  |
|--------------|---|
| IPOE-171-95W | Industrial Single-Port Multi-Gigabit 802.3bt PoE++ Injector (95 watts, -40~75 degrees C, 12~54V DC) |

### **Related Products**

| IPOE-270     | Industrial 2-port Multi-Gigabit 802.3bt PoE++ Injector Hub               |
|--------------|--|
| IPOE-270-12V | Industrial 2-port Multi-Gigabit 802.3bt PoE++ Injector Hub (12~54V DC)   |
| IPOE-175     | Industrial IP67 1-Port 60W 802.3bt PoE++ Injector (-40~75 degrees C)     |
| POE-171A-60  | Single-Port Multi-Gigabit 802.3bt PoE++ Injector (60 Watts)              |
| POE-171A-95  | Single-Port Multi-Gigabit 802.3bt PoE++ Injector (95 Watts)              |
| IPOE-E174    | 1-Port Ultra PoE to 4-Port 802.3af/at Gigabit PoE Extender               |
| IPOE-173S    | Industrial Single-Port 10/100/1000Mbps 802.3bt PoE++ Splitter            |
| IPOE-E302    | Industrial IP67 1-Port 802.3bt PoE++ to 2-Port 802.3at/bt PoE++ Extender |
| ICA-E6265    | 2 Mega-pixel IR PoE Plus Speed Dome IP Camera with Extended Support      |

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