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



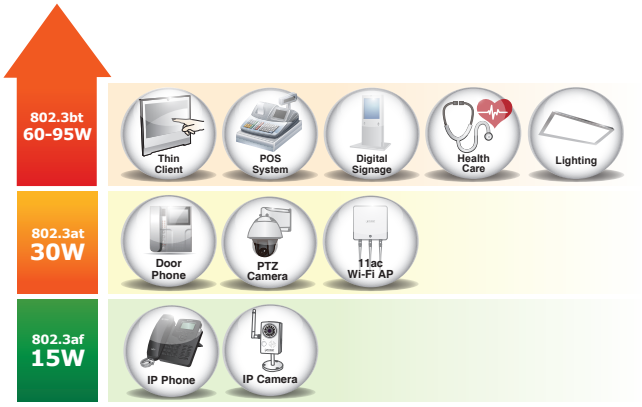
Advanced Multi-Gigabit and 802.3bt PoE++ Network Solution

PLANET POE-171A-60/POE-171A-95 is a Single-Port 802.3bt Power over Ethernet Injector with a maximum of up to **60 watts** and **95 watts** of power output over Ethernet cables. It is also equipped with two 10M/100M /1G/2.5G/ 5GBASE-T RJ45 copper interfaces to handle extremely large amounts of data transmission.



The POE-171A-60/POE-171A-95 is designed specifically to meet the demand for growing higher power required network equipment such as:

- PTZ speed dome
- AIO (All-in-One) touch PC
- Remote digital signage display
- Other network devices that need higher power to work normally



Interface

- 2 RJ45 interfaces
  - 1-port **Data + Power output**
  - 1-port **Data input**
- 1 DC 52~56V input power socket
- 1 PoE mode (standard/legacy and force) DIP switch

Power over Ethernet

- Complies with IEEE 802.3at/bt PoE end-span/mid-span PSE
- Supports PoE power up to 60 watts for PoE port (POE-171A-60)
- Supports PoE power up to 95 watts for PoE port (POE-171A-95)
- Auto-detection of PoE IEEE 802.3af/at/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
- Auto-detection of DC input voltage

Hardware

- All-in-one compact size design
- LED indicators for Power LED, PoE-in-Use LED, Legacy LED and PoE Usage LED
- Wall-mount design
- Metal case
- Supports 6KV DC Ethernet ESD protection

The POE-171A-60/POE-171A-95 delivers the Ethernet digital data with DC power over the twisted-pair cables as a 95-watt Power over Ethernet Injector, and the connected ultra Power over Ethernet splitter, the POE-173S, will separate the digital data and the power into three optional outputs (12V/19V/24V DC) with distance up to 100 meters.

Intelligent LED Indicator for PoE Mode and Real-time PoE Usage

The POE-171A-60/POE-171A-95, when switched to the legacy mode, provides power to those PD devices which do not fully follow the IEEE 802.3af/at/bt standard. The Legacy LED will turn on when the Legacy mode is enabled. If the Legacy mode can't power on the PD, the Force mode will be enabled automatically to provide the PD with a maximum of 60 watts.

Moreover, the POE-171A-60/POE-171A-95 helps users to monitor the current status of PoE power usage easily and efficiently via its advanced LED indication. "PoE Power Usage" displayed on the front panel of the POE-171A-60/POE-171A-95 has three LED indicators of different power usages. Via the power usage LED, the POE-171A-60/POE-171A-95 enables the administrator to monitor the status of the power usage of the connected PDs in real time.



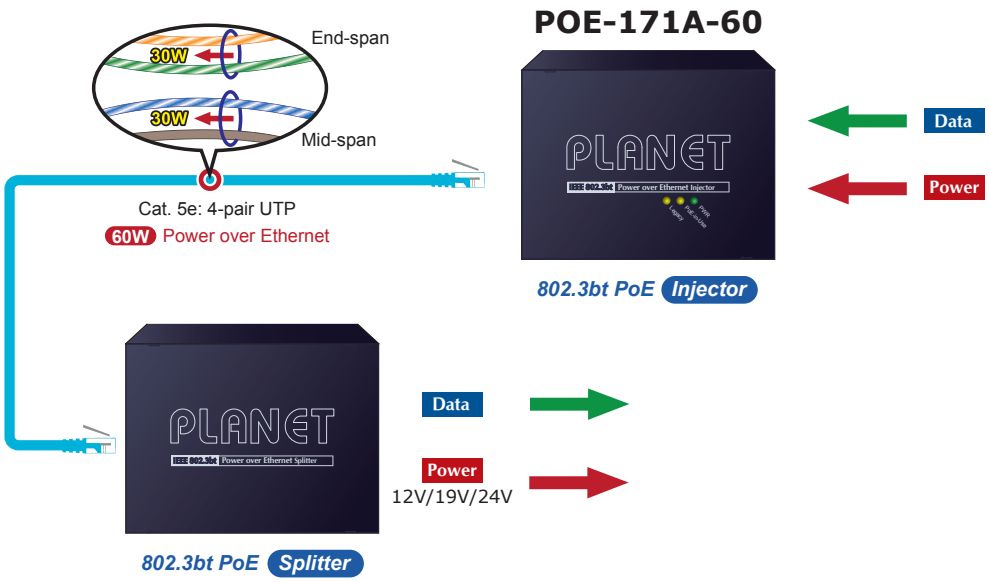
POE-171A-60



POE-171A-95

60/95 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 POE-171A-60/POE-171A-95 provides the capability to source up to 60 watts and 95 watts of power by using all the four pairs of standard Cat. 5e/Cat. 6 Ethernet cabling.



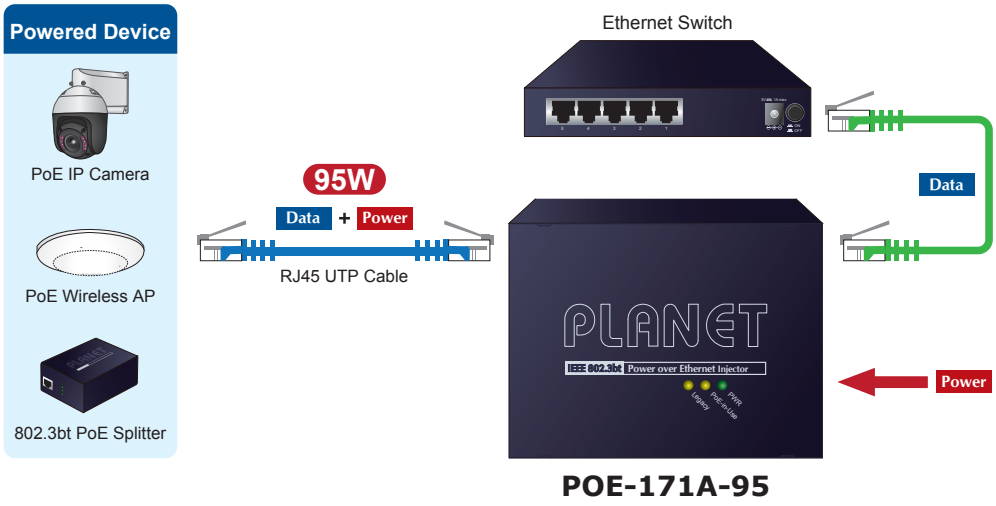
PoE Standard	IEEE 802.3af (802.3at Type 1)	IEEE 802.3at (802.3at Type 2)	IEEE 802.3bt (802.3bt Type 3)	IEEE 802.3bt (802.3bt Type 4)	PoH (Power over HD-BASE-T)
Maximum Power delivered by PSE	15.4 watts	30 watts	**60 watts**	**95 watts**	**95 watts**
Power Available at PD	12.95 watts	25.5 watts	**51 watts**	**71 watts**	**72 watts**
Voltage Range	48V	50~57V	**52~57V**	**52~57V**	**52~57V**
Twisted-pair Used	2-pair		**4-pair**	**4-pair**	**4-pair**
Supported Modes	End-span or Mid-span		**End-span + Mid-span**	**End-span + Mid-span**	**End-span + Mid-span**
Supported Cabling	Cat. 3/5/5e/6		**Cat. 5e/6**	**Cat. 5e/6**	**Cat. 5e/6**

All-in-One 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 POE-171A-60/POE-171A-95 comes in compact housing, and provides one 52~56V DC input power jacket, one power LED, PoE-in-use LED and legacy LED. Two RJ45 ports -- Ethernet port and Ethernet + DC port – are on the side panel. Simply plug in the Ethernet cables and DC power cord, and the POE-171A-60/POE-171A-95 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

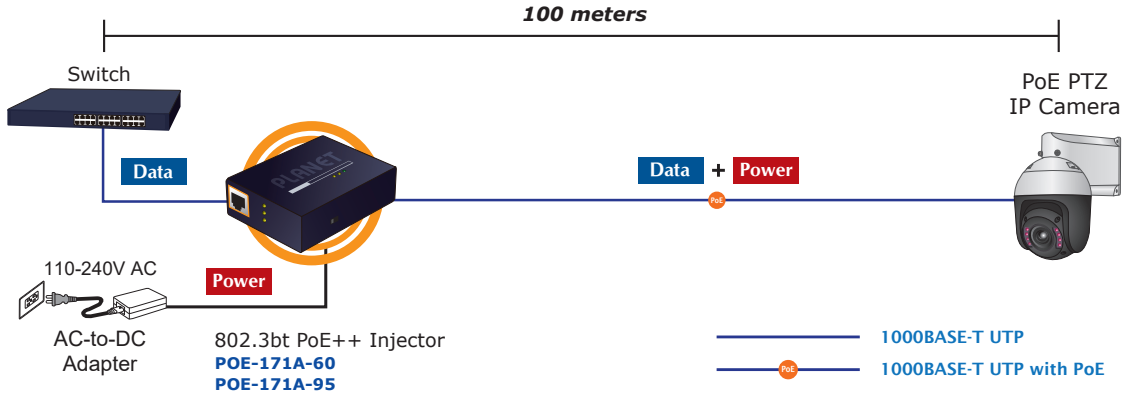
Backward compatible with both 802.3af/at PoE standards, the POE-171A-60/POE-171A-95 allows users to flexibly deploy standard and high powered devices to transfer data and power simultaneously through one Ethernet cable for up to 100 meters. The POE-171A-60/POE-171A-95 frees the security IP camera and 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.



Applications

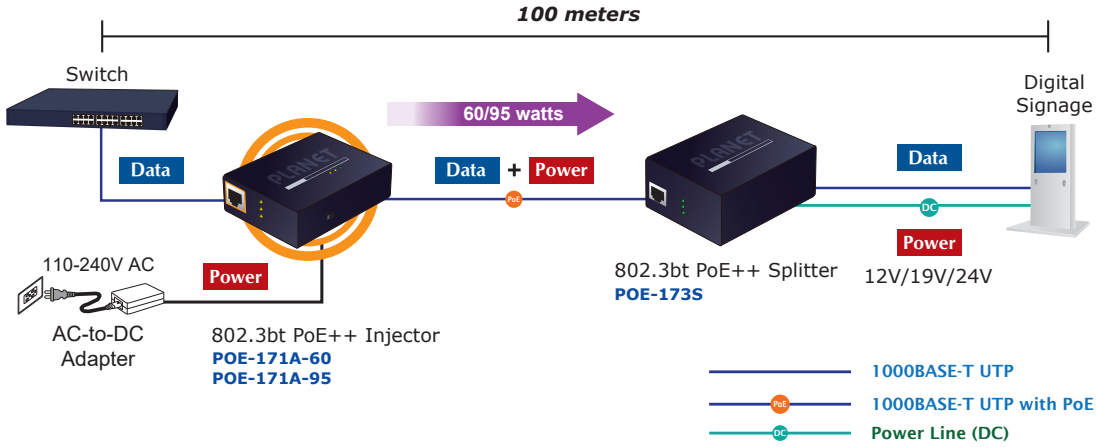
Installation of 802.3bt PoE++ Injector

Due to the backward capability of IEEE 802.3af/at PoE standard, the POE-171A-60/POE-171A-95 can directly connect with any IEEE 802.3af/at 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.



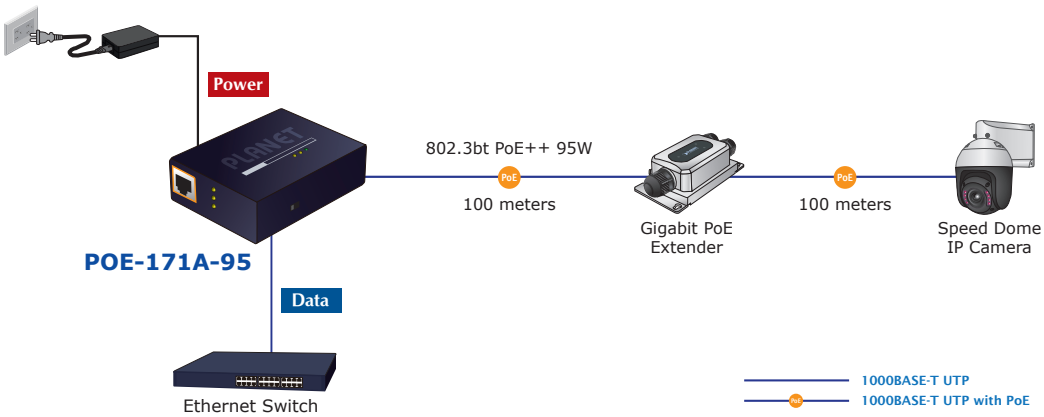
Installation of 802.3bt PoE++ Injector and Splitter

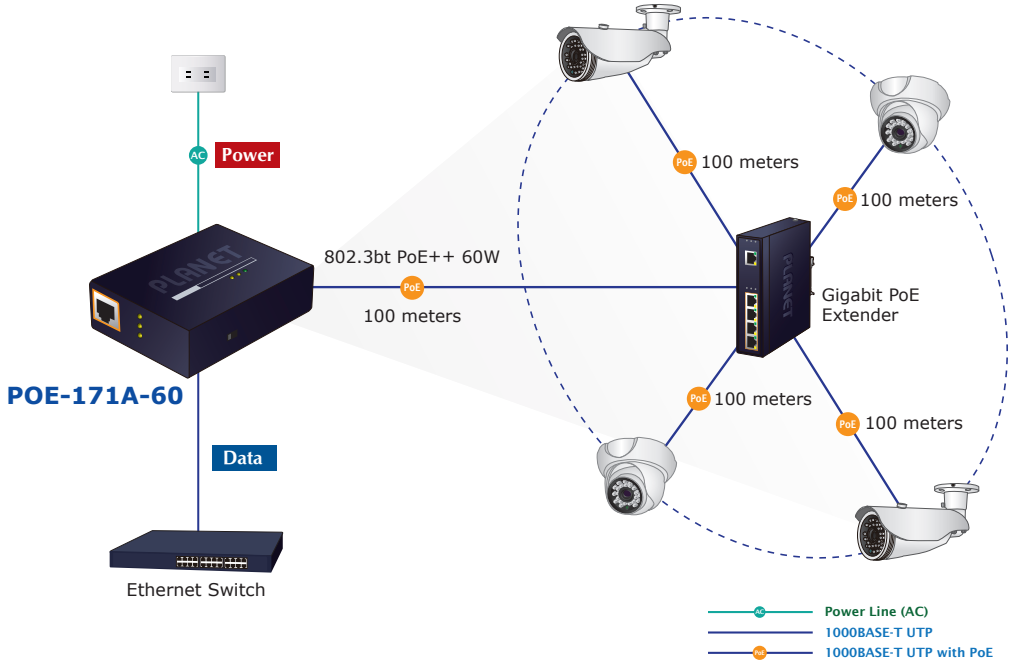
For a place which is hard to find the power inlet, the POE-171A-60/POE-171A-95 and IPOE-173S operate as a pair to provide the easiest way to power your Ethernet devices which need high power input, such as PTZ network cameras, PTZ speed dome cameras, color touch-screen Voice over IP (VoIP) telephones, 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 POE-171A-60/POE-171A-95 and PLANET PoE Extender, IPOE-E174, 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 POE-171A-60/POE-171A-95. The POE-171A-60/POE-171A-95 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

Product		POE-171A-60	POE-171A-95
Hardware Specifications			
Interface	Input Port	1 x RJ45 STP Data In	
	Output Port	1 x RJ45 STP PoE (Data + Power) Out	
	DC Socket	1 x 52~56V DC input socket	
Network Cable		Twisted-pair cable up to 100 meters (328ft) 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	
LED Indicators		System: Power x 1 (**Green**) PoE Port: PoE-in-Use x 1 (**Amber**) Legacy mode: Legacy x 1 (**Amber**) PoE Usage: PoE Usage x 3 (**Amber**)	
Data Rate		10M/100M/1G/2.5G/5Gbps	
ESD Protection		6KV DC	
Enclosure		Metal case	
Dimensions (W x D x H)		94 x 70.3 x 26.2 mm	
Weight		200g	250g
Power Requirements		DC 52~56V, 1.4A max.	DC 52~56V, 2.5A max.
Power Consumption		72 watts max.	130 watts max.
No. of devices that can be powered		1	
Power over Ethernet			
PoE Standard		IEEE 802.3at/bt PSE	IEEE 802.3at/bt PSE
PoE Power Output Budget		DC 52~56V/60-watt PoE via 4-pair	DC 52~56V/95-watt PoE via 4-pair
PoE Power Output		Max. 60W@1m cable Max. 52W@100m cable	Max. 89.5W@1m cable Max. 75W@100m cable
PoE Power Supply Type		End-span + Mid-span	
Power Pin Assignment		Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-)	
PoE Mode		Standard mode Legacy and Force modes	

Standards Conformance		
Standards Compliance	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 Type 3 IEEE 802.3bt 4-pair Power over Ethernet Type 4 IEEE 802.3at Power over Ethernet Plus IEEE 802.3af Power over Ethernet	
Regulatory Compliance	FCC Part 15 Class A, CE	
Environment		
Operating Temperature	0 ~ 50 degrees C	
Storage Temperature	-10 ~ 70 degrees C	
Operating Humidity	5 ~ 90%, relative humidity, non-condensing	
Storage Humidity	5 ~ 90%, relative humidity, non-condensing	
Standard Accessories		
Package Contents	POE-171A-60 User's Manual 100 ~ 240V AC-to-DC power adaptor AC power cord	POE-171A-95 User's Manual 100 ~ 240V AC-to-DC power adaptor AC power cord

Ordering Information

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)

Related 802.3bt Ultra PoE Injector Products

POE-176-95	Single-Port 10Gbps 95-watt 802.3bt PoE++ Injector
POE-175-95	Single-Port 10/100/1000Mbps 802.3bt PoE++ Injector
POE-171	Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts)
POE-172	Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts, internal PWR)
POE-173	60-Watt Ultra Power over Ethernet Injector

Related 802.3bt Ultra PoE Splitter Products

POE-171S	Single-Port 10/100/1000Mbps Ultra PoE Splitter (12V/19V/24V)
POE-172S	Single-Port 10/100/1000Mbps Ultra PoE Splitter (12V/19V/24V)
POE-173S	Single-Port 10/100/1000Mbps 802.3bt PoE++ Splitter
IPOE-173S	Industrial Single-Port 10/100/1000Mbps 802.3bt PoE++ Splitter

Related 802.3bt Ultra PoE Extender Products

POE-E304	1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender
IPOE-E174	Industrial 1-Port 802.3bt PoE++ to 4-Port 802.3af/at Gigabit PoE Extender
IPOE-E302	Industrial IP67 1-Port 802.3bt PoE++ to 2-Port 802.3at/bt PoE++ Extender

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