Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts)

Quick and Easy Gigabit High Power PoE Network Deployment

PLANET POE-171 is a **single port ultra Power over Ethernet Injector** with maximum up to 60 **watts** of power output over Ethernet cable. It is designed specifically to fill the demand of growing higher power required network equipment. The POE-171 can co-work with PLANET POE-171S (50-watt PoE splitter) to offer more PoE applications to client devices such as:

- ■ **PoE PTZ Speed Dome Camera**
- ■ **Thin client**
- ■ **AIO** (All-in-One) **touch PC**
- ■ Remote digital signage display
- ■ Network devices that need higher PoE power to work normally

The POE-171 delivers the Ethernet digital data with DC 56V power over the twisted pair cables as an IEEE 802.3at Gigabit High Power over Ethernet Injector, and it supports transmission distance from the POE-171 to a PoE device up to 100 meters.

Interface

- 2-Port RJ-45 interface
  - 1-Port **Data + Power output**
  - 1-Port **Data input**

Power over Ethernet

- Ultra Power over Ethernet End-Span/Mid-Span PSE
- IEEE 802.3at/af PoE standard compliant
- Compatible with All IEEE 802.3at/af powered devices
- Supports 56VDC, 60-watt PoE power output at maximum
- Auto-detection of IEEE 802.3at/af PoE equipment and device to avoid possible damage by incorrect installation
- Automatic detection and protection of non–standard Ethernet terminals
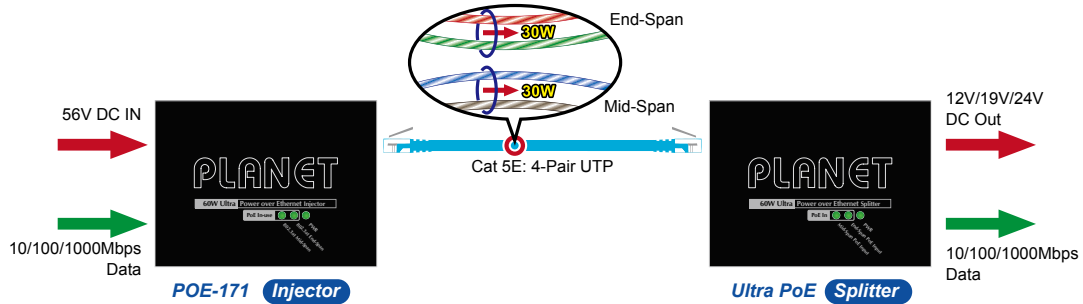- Remote power feeding up to 100 meters

Hardware

- Compact size metal case
- LED indicators for display of power and PoE In-use status

Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3at High Power over Ethernet
- IEEE 802.3af Power over Ethernet
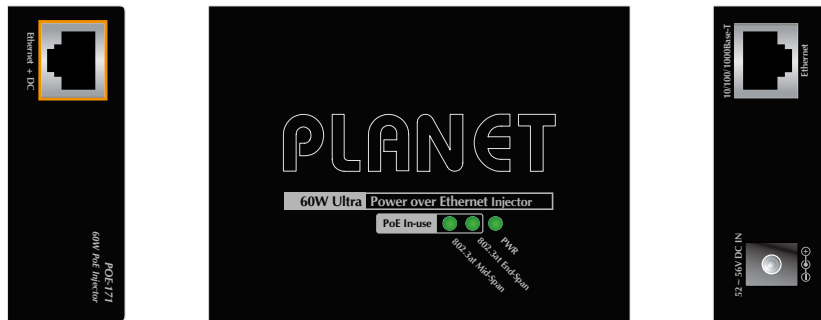- FCC Part 15 Class A, CE

60 watts of Power over 4-Pair UTP

The POE-171 ultra PoE solution uses cabling standard as IEEE 802.3at/af PoE. Instead of delivering power over 2-pair twisted UTP – be it End-span (Pin 1, 2, 3 and 6) or Mid-span (Pin 4, 5, 7 and 8), it provides the capability to source up to 60 watts of power by using all the four pairs of standard Cat5e/6 Ethernet cabling. In the new 4-pair system, two PSE controllers will be used to power both the data pairs and the spare pairs.

Cost-effective and Easy Cabling Installation

With concepts of "Easy to install", "Plug and Play" and "Simple troubleshooting" for business and home users, the POE-171 is in the compact size housing having one **52~56V** DC input power jacket at its right side, two RJ-45 ports - **Ethernet** port and Ethernet+DC port - at both side panels, and one power LED and two **PoE In-use** LEDs (802.3at End-span and 802.3at Mid-span) at top side. Simply plug in the Ethernet cables and DC power cord, the POE-171 is ready to provide high speed network communication and 60-watt ultra power PoE injector functions simultaneously with no need of software configuration.
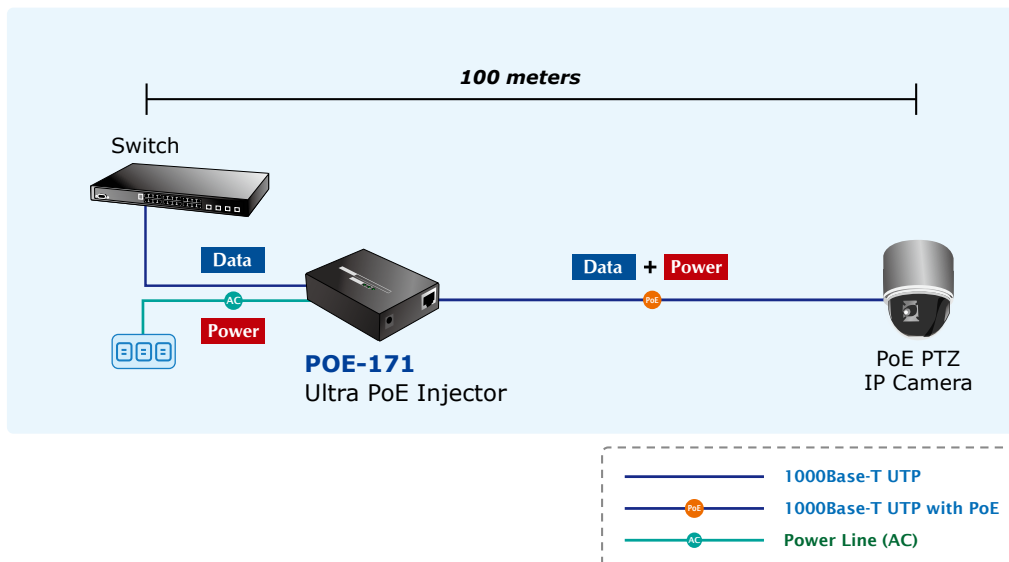

The **POE-171 Ultra PoE Injector** is an ideal solution that enables network device with high power demand to be powered directly via the RJ-45 Port interface without the need to install power outlets and electrical cabling.
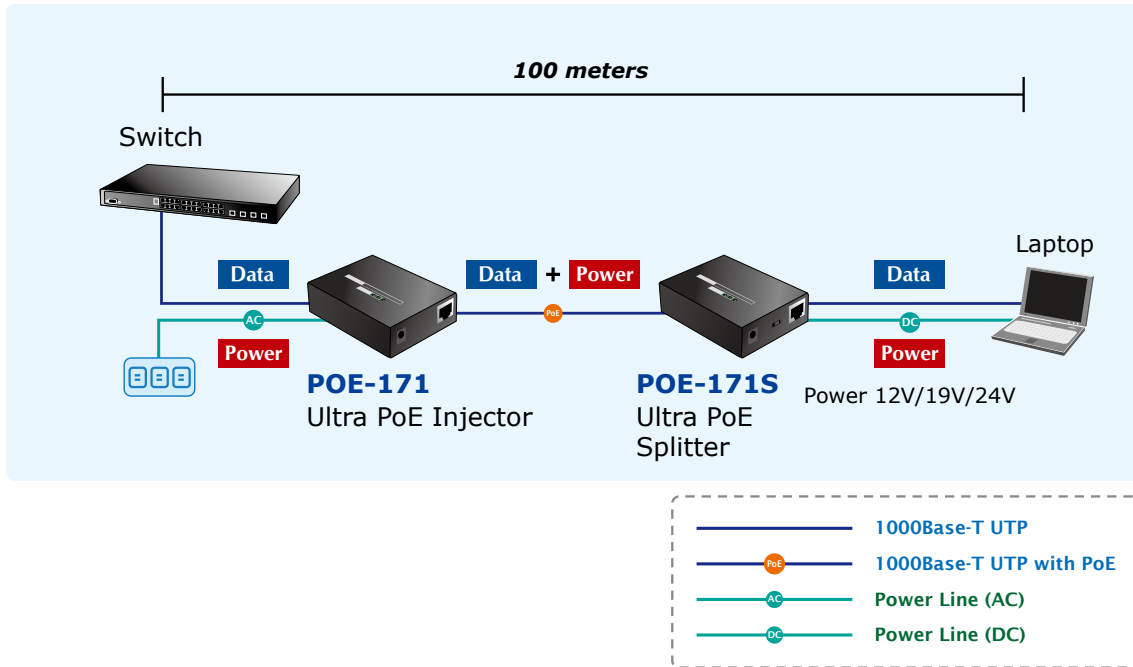
Application

Ultra PoE / 802.3at PoE Injector Installation

Because of having the capability of IEEE 802.3at Power over Ethernet, the POE-171 can directly connect with any IEEE 802.3at or IEEE 802.3af PoE devices, like PTZ (Pan, Tilt & Zoom) and Speed Dome network cameras, color touch-screen IP phones, multi-channel wireless LAN access points and other network devices which support IEEE 802.3at or IEEE 802.3af Power over Ethernet.
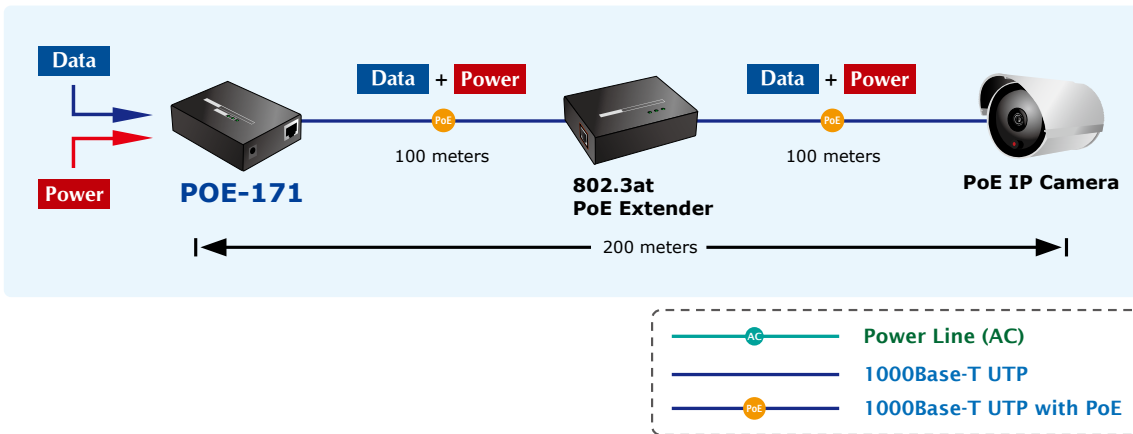
Ultra PoE Injector and Splitter Installation

For a place which is hard to find the power inlet, the POE-171 and POE-171S operate as a pair to provide the easiest way to power your Ethernet devices which need high power input, such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ Speed Dome cameras, color touch-screen IP phones, and multi-channel wireless LAN access points installed on the top of the building or used in enterprise office or home.

IEEE 802.3at Injector and PoE Extended Installation

To achieve the benefits of IP Surveillance and also the long-distance IP Camera distribution, the POE-171 and PLANET PoE Extender, POE-E201, 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-171. The POE-171 delivers PoE power over the first 100 meters to the PoE Extender over UTP cable, and then the PoE Extender forwards the Ethernet data and the remaining PoE power to the remote PoE IP camera.

Specifications

Product		Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts)
Product		POE-171
Hardware Specifications		
Interface	Input Port	1 x RJ-45 STP Data In
	Output Port	1 x RJ-45 STP PoE (Data + Power) Out
	DC socket	56V DC Input
LED Indicator	System	Power x 1 (Green)
	PoE Port	PoE in Use x 1 (Green)
Network Cable	Ultra PoE (60W)	10/100/1000Base-T: 4-Pair UTP Cat. 5e, 6 up to 100m (328ft)
	802.3af / at PoE (15W / 30W)	10/100/1000Base-T: 2-Pair UTP Cat. 3, 5, 5e, 6 up to 100m (328ft)
Data Rate		10/100/1000Mbps
Dimensions (W x D x H)		95 x 70 x 26 mm
Weight		237g
Unit Input Voltage		DC 56V
Power Requirements		External AC-to-DC adapter 100-240V AC, 50/60Hz, 1.5A
Power Consumption		60 watts max.
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
Power over Ethernet		
PoE Standard		IEEE 802.3at High Power over Ethernet End-span / Mid-span PSE
Power Output		DC 56V / 60-watt PoE via 4-pairs DC 56V / 30-watt PoE via 2-pairs
PoE Power Supply Type		End-Span + Mid-Span
Power Pin Assignment		Pair 1: 1/2(-), 3/6(+) Pair 2: 4/5(+), 7/8(-)
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 802.3at High Power over Ethernet IEEE 802.3af Power over Ethernet
Regulation Compliance		FCC Part 15 Class A, CE

Ordering Information

POE-171	Single-Port 10/100/1000Mbps Ultra PoE Injector (60 Watts)

Related Products

POE-171S	Single-Port 10/100/1000Mbps Ultra PoE Splitter (12V/19V/24V)

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POE-171

4