

# 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

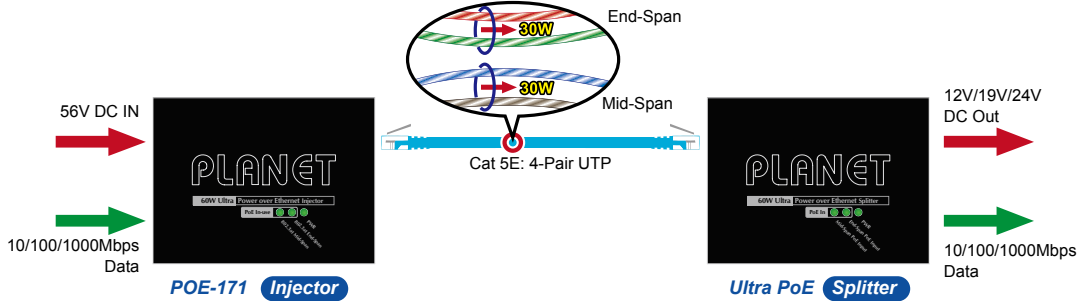
- Compact size metal case
- LED indicators for display of power and PoE In-use status

## 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

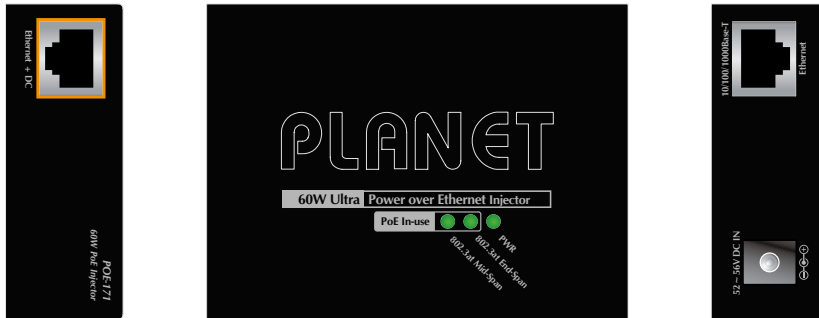
**60 watts of Power over 4-Pair UTP**

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.

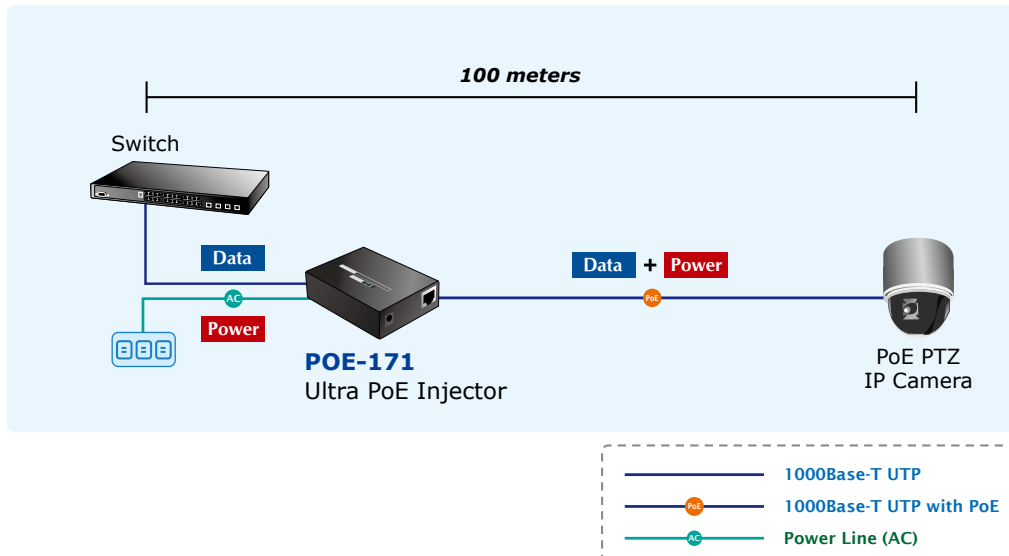


The **POE-171 Ultra PoE Injector** is an ideal solution that enables network device with high power demand to be powered directly via the RJ-45 Port interface without the need to install power outlets and electrical cabling.

**Application**

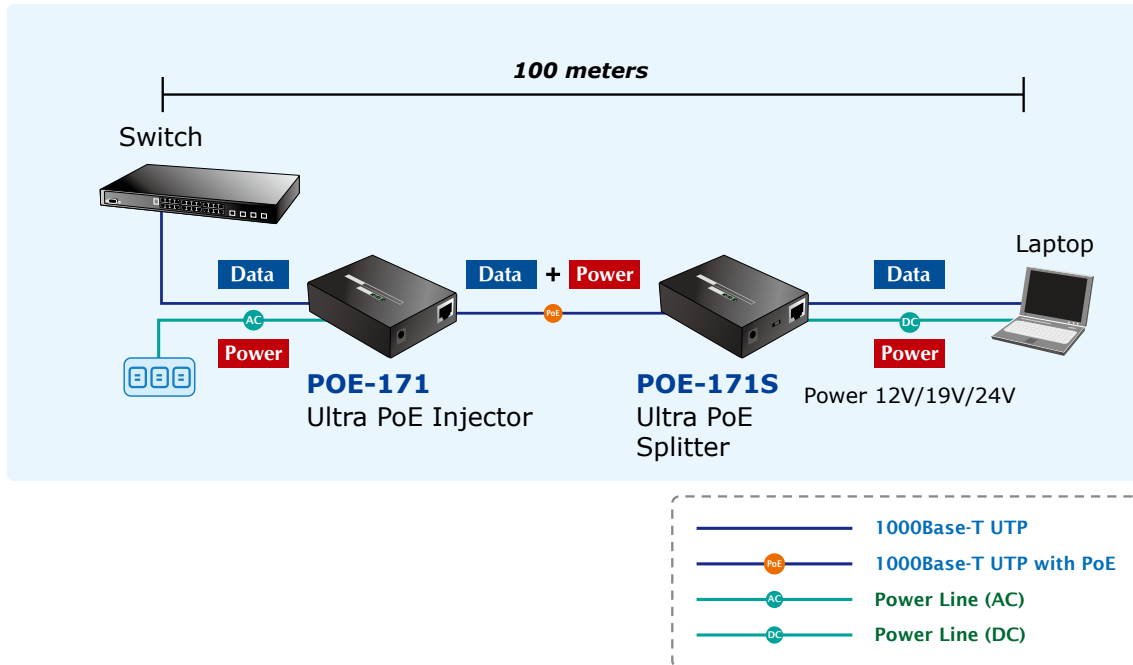
**Ultra PoE / 802.3at PoE Injector Installation**

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.



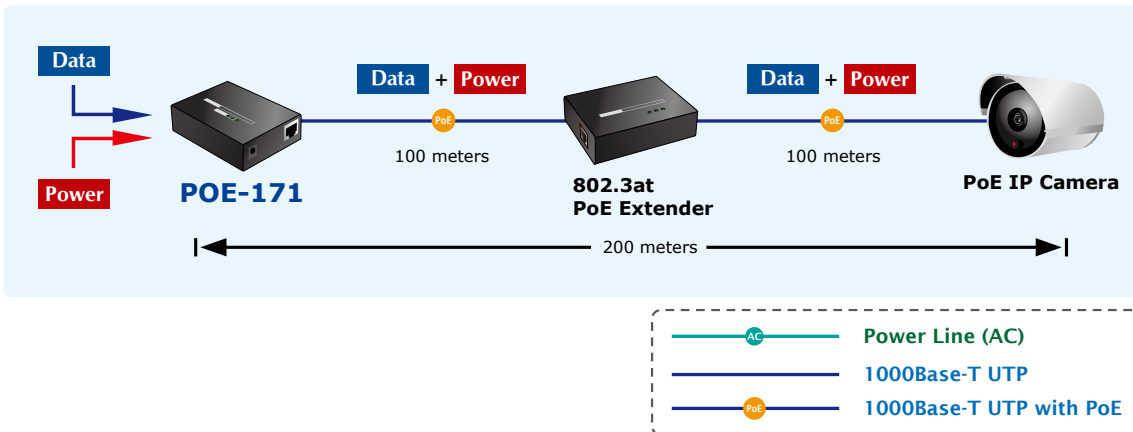
**Ultra PoE Injector and Splitter Installation**

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	
<b>Hardware Specifications</b>		
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	65 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	
<b>Power over Ethernet</b>		
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(-)	
<b>Standards Conformance</b>		
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	
Regulation Compliance	IEEE 802.3af Power over Ethernet FCC Part 15 Class A, CE	

## Ordering Information

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

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