

Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector (Mid-Span)



The IPOE-162 is a **Single-Port**, **Mid-Span Industrial IEEE 802.3at High Power over Ethernet Injector** providing maximum up to 30 Watts of power output over Ethernet cables. It is specifically designed to fulfill the growing demand of higher power network equipments such as **PTZ (Pan, Tilt & Zoom)** network cameras, **PTZ Speed Dome**, color touch- screen / Video and Voice over IP (VoIP) telephones, multi-channel (11a/b/g/n) wireless LAN access points and other Network devices that need higher power to work stably.

Quick and Easy High Power PoE Network Deployment

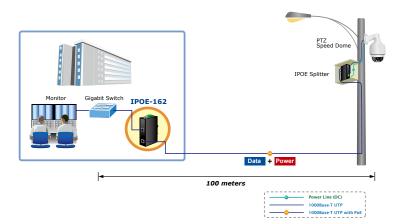
The IPOE-162 can deliver 30 Watts 56V DC power over Cat.5/5e/6 Ethernet cables which allowing data and power transmitted simultaneously through the cable between the Injector (IPOE-162) and PoE PD (Powered Device) or PoE Splitter (IPOE-1625 / POE-162S). The maximum distance between the Injector and Splitter is 100 meters. The IPOE-162 is also compatible with IEEE 802.3af PoE PD or PoE Splitter and provides maximum up to 15.4 Watts power output, like POE-151S and POE-152S do. With Industrial IEEE 802.3at Gigabit High Power over Ethernet devices installed, the system administrator only has to use one single RJ-45 Ethernet cable to carry both power and data to each device. It would make the network deployment more easily and reliably.

Convenient and Reliable Power System

To facilitate the 802.3at High Power PoE usage with common used **24V DC / 48V DC** power input or **24V AC** power input in transportation and industrial-level applications, the IPOE-162 adopts 24 / 48V DC to 56V power boost technology to solve power source issue but not require special power supplies. The IPOE-162 provides an integrated power solution with a wide range of voltages (24V / 48V DC) for worldwide operability. It also provides dual-redundant, reversible polarity 24V / 48V DC power or 24V AC power supply inputs for high availability applications.

Stable Operating Performance under Difficult Environments

Today, the PoE demand expands from commercial applications to many critical networks in the harsh environment. The IPOE-162 will be the one of ideal solution that provides a high level of immunity to electromagnetic interference and heavy electrical surges typical of environments found on plant floors or in curb side traffic control cabinets. The IPOE-162 can operate stably under temperature range from **-40 to 75 Degree C** which enables the users to conveniently apply the device in almost any location of the network. The IPOE-162 also equips with compact IP30 standard metal case that allows either DIN rail or Wall mounting for efficient use of cabinet space.





KEY FEATURES

INTERFACE

- 2-Port RJ-45 interfaces
 - 1-Port **Data + Power** output
 - 1-Port Data input
- One terminal block for master and slave power input. (Power Range: 24 ~ 48V DC / 24V AC redundant power)

POE

- Gigabit High Power over Ethernet Mid-Span PSE
- IEEE 802.3at / 802.3af PoE compliant
- IEEE 802.3at / 802.3af splitter devices compatible
- Supports PoE Power up to 30 Watts
- Provides DC 56V power over RJ-45 Ethernet cable to device with Ethernet port
- Auto-detect of IEEE 802.3at equipments and protects devices from being damaged by incorrect installation
- Remote power feeding up to 100m

HARDWARE

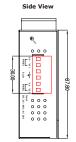
- IP30 Slim Type Metal Case
- LED indicators for Power LED and PoE In-use

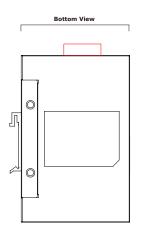
INDUSTRIAL CASE / INSTALLATION

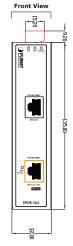
- DIN Rail and Wall Mount Design
- Supports EFT protection 6000 VDC for power line
- Supports 6000 VDC Ethernet ESD protection
- -40 to 75 Degree C operation temperature

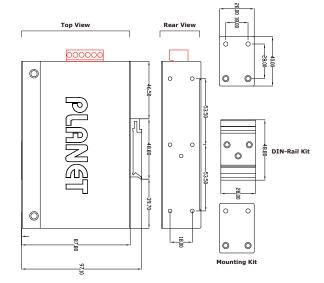
STANDARD COMPLIANCE

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









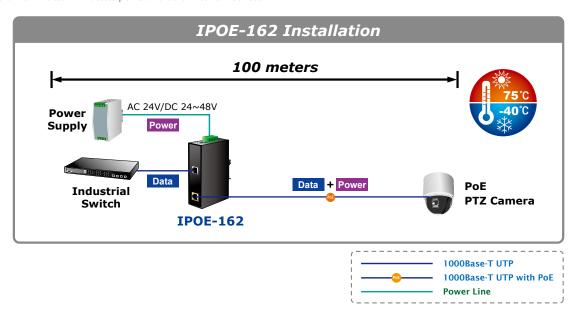
Dimensions (unit = mm)



APPLICATIONS

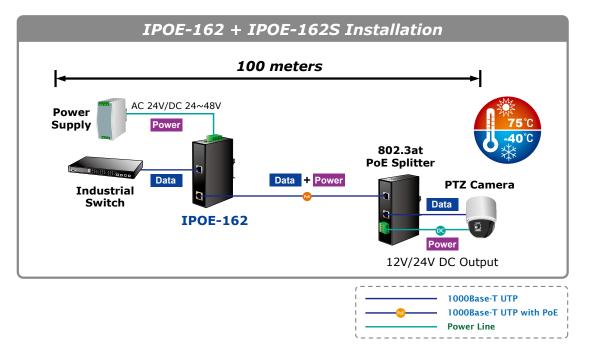
Connect to IEEE 802.3at compliant devices

Having the capability of IEEE 802.3at Power over Ethernet standard, the IPOE-162 can directly connect and inject power via RJ-45 Ethernet cable to any IEEE 802.3at end-nodes like PTZ (Pan, Tilt & Zoom) network cameras, PTZ Speed Dome, color touch- screen Voice over IP (VoIP) telephones, multi-channel wireless LAN access points and other Network devices.



The IEEE 802.3at Injector and Splitter Installation

For a place which is hard to find the power inlet, the IPOE-162 and IPOE-162S can 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, color touch- screen Voice over IP (VoIP) telephones, and multi-channel wireless LAN access points installed on the top of the building or in enterprise office or home.





Product		Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector
Model		IPOE-162
Hardware	Specification	
	"Data" Input Port	1 x RJ-45 STP
Interface	"PoE (Data+Power)" Output Port	1 x RJ-45 STP
	Input power terminal block	1
LED Indicator		System: Power 1, Power 2, Fault (Green)
		PoE Port: PoE in Use x 1 (Green)
Network Cable		10Base-T: UTP Cat. 3, 4, 5, up to 100m (328ft)
		100Base-TX: UTP Cat. 3, 4, 5, up to 100m (328ft)
		1000Base-T: UTP Cat. 5, 5e, 6 up to 100m (328ft)
		EIA/TIA- 568 100-ohm STP (100m)
Data Rate		10/100/1000Mbps
Dimension (W x D x H)		135 x 87.8 x 32 mm
Weight		473g
Unit Input Voltage		24 ~ 48V DC
		24V AC
Power Consumption		30 Watts max.
Number of device can be powered		1
Installation		DIN Rail kit and Wall Mount ear
Alarm		Provides one relay output for power fail,
		Alarm Relay current carry ability: 3A @ DC 30V
Enclosure		IP30 Slim Type Metal Case
Power ove	r Ethernet	
PoE Standa	ard	IEEE 802.3at High Power over Ethernet / Mid-Span PSE
PoE Power Output		DC 56V / 30 Watts
PoE Power supply Type		Mid-Span
Power Pin Assignment		4/5(+), 7/8(-)
Standards	Conformance	
		IEEE 802.3 10Base-T Ethernet
Standards Compliance		IEEE 802.3u 100Base-TX Fast Ethernet
		IEEE 802.3ab 1000Base-T Gigabit Ethernet
		IEEE 802.3af Power over Ethernet
		IEEE 802.3at Power over Ethernet enhancement standard
Regulation Compliance		FCC Part 15 Class A, CE
Environme		
Operating Temperature		-40 ~ 75 Degree C
Storage Temperature		-40 ~ 85 Degree C
Humidity		5 ~ 95% (Non-condensing)

IPOE-162	Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector (Mid-Span, 30 Watts)
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RELATED PRODUCT

IPOE-162S	Industrial IEEE 802.3at High Power over Ethernet Splitter(12V & 24V)
POE-E201	IEEE 802.3at Power over Gigabit Ethernet Extender
PWR-40-24	40W 24V DC Single Output Industrial DIN Rail Power Supply
PWR-75-24	75W 24V DC Single Output Industrial DIN Rail Power Supply
PWR-120-48	120W 48V DC Single Output Industrial DIN Rail Power Supply
PWR-240-48	240W 48V DC Single Output Industrial DIN Rail Power Supply

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