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



Planet IPOE-162 Single-Port, Mid-span Industrial IEEE 802.3at Power over Ethernet Plus Injector provides a maximum of up to 30 watts of power output over Ethernet cables. It is specifically designed to fulfill the growing demand of higher power network equipment such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ speed dome cameras, color touch-screen 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-watt 56V DC power over Cat.5/5e/6 Ethernet cables which allow data and power to transmit simultaneously through the cable between the Injector (IPOE-162) and PoE PD (powered device) or PoE Splitter (IPOE-162S/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 a maximum of up to 15.4-watt power output. With Industrial IEEE 802.3at Power over Ethernet Plus devices installed, the system administrator only has to use one single RJ45 Ethernet cable to carry both power and data to each device. It would make the network deployment easier and more reliable.

Interface

- · 2 RJ45 interfaces
 - 1-port Data + Power output
 - 1-port Data input
- One terminal block for master and slave power input.
 (Power Range: 12 ~ 48V DC / 24V AC redundant power.)

PoE

- Gigabit Power over Ethernet Plus 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 for the PoE port
- Provides DC 56V power over RJ45 Ethernet cable to device with Ethernet port
- Auto-detection of PoE IEEE 802.3at/802.3af devices
- · Remote power feeding up to 100m

Hardware

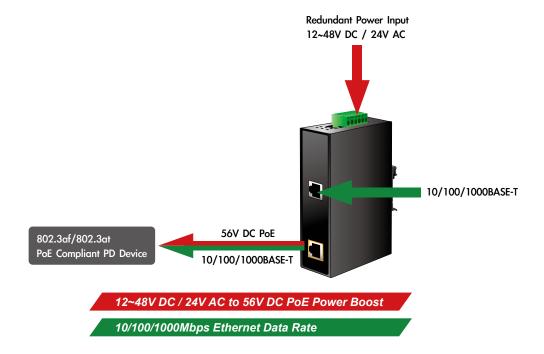
- · IP30 slim metal case
- · LED indicators for power LED and PoE-in-use

Industrial Case and Installation

- · DIN-rail and wall-mount design
- · Supports 6000 VDC Ethernet ESD protection
- -40 to 75 degrees C operating temperature

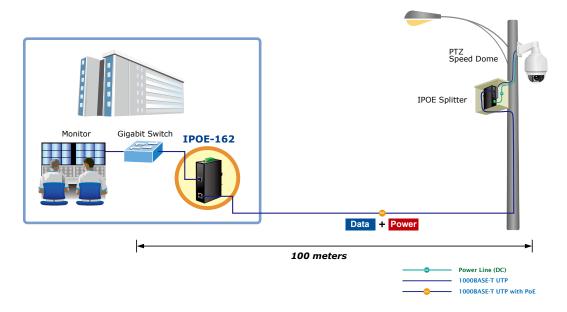
Convenient and Reliable Power System

To facilitate the 802.3at PoE usage with commonly used **12~48V DC** power input or **24V AC** power input for transportation and industrial-level applications, the IPOE-162 adopts 12~48V DC to 56V **power boost** technology to solve power source issue but does not require special power supplies. Its wide-ranging voltages design is suitable for worldwide operability with high availability applications requiring dual or backup power inputs.



Stable Operating Performance under Difficult Environments

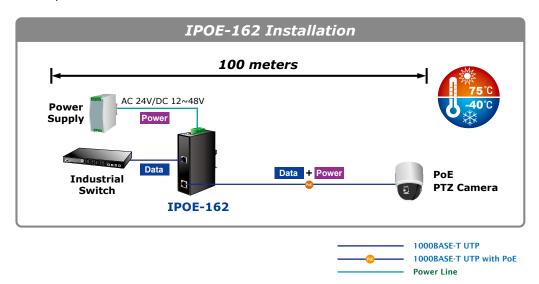
Today, the PoE demand expands from commercial applications to many critical networks in the harsh environment. The IPOE-162 will be one of the ideal solutions that provide a high level of immunity against electromagnetic interference and heavy electrical surges typical of environments found on plant floors or in curb-side traffic control cabinets. The IPOE-162 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-162 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

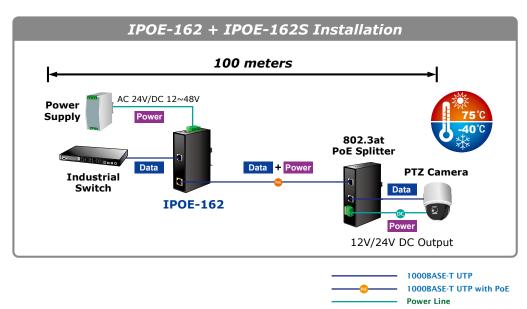
Connecting to IEEE 802.3at Compliant Devices

Having the capability of IEEE 802.3at Power over Ethernet standard, the IPOE-162 can directly connect and inject power via RJ45 Ethernet cable to any IEEE 802.3at end-nodes like PTZ (Pan, Tilt & Zoom) network cameras, PTZ speed dome cameras, color touch-screen voice over IP (VoIP) telephones, multichannel wireless LAN access points and other network devices.



IEEE 802.3at Injector and Splitter Installation

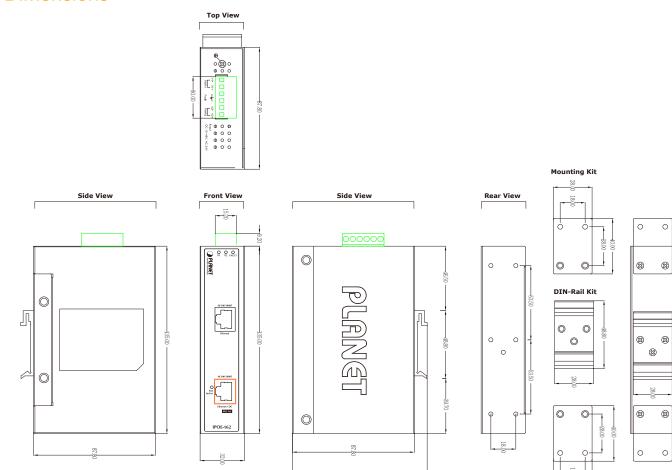
For a place which is hard to find the power inlet, the IPOE-162 and IPOE-162S can operate as a pair to provide the easiest way to power your Ethernet devices which need high power input, such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ speed dome cameras, color touch-screen voice over IP (VoIP) telephones, and multi-channel wireless LAN access points installed on the top of the building or in enterprise office or home.



Specifications

Hardware Version	Product		IPOE-162
Hardware Version	Product		IPOE-102
Interface			2
Interface Output Port	naruware version	Input Port	
Input Power Terminal Block	Interface		
System Power 1 (Green), Power 2 (Green), Power 2 (Green), Power 2 (Green), Power 2 (Green), Pout (Red) PoE-in-use x 1 (Orange)		·	
Network Cable			System: Power 1 (Green), Power 2 (Green), Fault (Red) PoE Port:
Dimensions (W x D x H)	Network Cable		100BASE-TX: UTP Cat. 3, 4, 5, up to 100m (328ft) 1000BASE-T: UTP Cat. 5, 5e, 6 up to 100m (328ft)
Veright Ver	Data Rate		10/100/1000Mbps
12 ~ 48V DC	Dimensions (W x E	O x H)	135 x 97 x 32 mm
Unit Input Voltage 24V AC Power Consumption 30 watts max. Number of devices can be powered 1 Installation DIN-rail kit and wall-mount ear Alarm Provides one relay output for power failure; alarm relay current carry ability: 3A @ DC 24V Enclosure IP30 slim metal case Power over Ethernet IEEE 802.3at Power over Ethernet Plus / mid-span PSE PoE Power Output DC 12V input DC 12V	Weight		473g
Number of devices can be powered 1	Unit Input Voltage		
Number of devices can be powered 1	Power Consumption		30 watts max.
Provides one relay output for power failure; alarm relay current carry ability: 3A @ DC 24V Pol Standard			1
Power over Ethernet	Installation		DIN-rail kit and wall-mount ear
Power over Ethernet	Alarm		Provides one relay output for power failure; alarm relay current carry ability: 3A @ DC 24V
DC 24~48V Input 30 watts 25 watts	Enclosure		
DC 24-48V Input DC 12V Input 25 watts	Power over Etherne	et	
PoE Power Output	PoE Standard		IEEE 802.3at Power over Ethernet Plus / mid-span PSE
DC 12V Input 25 watts		DC 24~48V Input	30 watts
Power Pin Assignment	PoE Power Output	DC 12V Input	25 watts
Power Pin Assignment			Mid-span
IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3af Power over Ethernet Plus	Power Pin Assignn	nent	
IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ah 1000BASE-T Gigabit Ethernet IEEE 802.3ah 1000BASE-T Gigabit Ethernet IEEE 802.3ah 1000BASE-T Gigabit Ethernet IEEE 802.3ah Power over Ethernet IEEE 802.3ah Power over Ethernet Plus	Standards Conform	nances	
CE EMI EN 61000-3-2 EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF) Stability Testing IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration) Environment Operating Temperature -40 ~ 75 degrees C Storage Temperature			IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3af Power over Ethernet
CE EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF) IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration) Environment Operating Temperature -40 ~ 75 degrees C Storage Temperature -40 ~ 85 degrees C	CE	ЕМІ	EN 61000-3-2
Stability Testing $IEC60068-2-27 \text{ (Shock)}$ $IEC60068-2-6 \text{ (Vibration)}$ $Environment$ $Operating Temperature -40 \sim 75 \text{ degrees C} Storage Temperature -40 \sim 85 \text{ degrees C}$		EMS	EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge) EN 61000-4-6 (CS)
Operating Temperature $-40 \sim 75$ degrees C Storage Temperature $-40 \sim 85$ degrees C			IEC60068-2-27 (Shock)
Storage Temperature -40 ~ 85 degrees C			
Humidity 5 ~ 95% (non-condensing)		ure	
	Humidity		5 ~ 95% (non-condensing)

Dimensions



Dimensions (unit = mm)

Mounting Kit

Ordering Information

IPOE-162 Art. N° 155262	Industrial IEEE 802.3at Gigabit Power over Ethernet Plus Injector (Mid-span, 30 watts)
IF OL-102 AIL IN 155202	industrial ILLL 602.3at Gigabit Fower Over Linemet Flus injector (wild-span, 30 watts)

Related Products

IPOE-162S	Industrial IEEE 802.3at Gigabit Power over Ethernet Plus Splitter
POE-E201	IEEE 802.3at Power over Gigabit Ethernet Extender
POE-E202	1-Port 802.3at PoE+ to 2-Port 802.3af/at Gigabit PoE Extender

Bottom View