

# Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter



### The Best Industrial Grade Data Link and Power Sourcing for Non-PoE Solution

The IPOE-162S is an **Industrial High Power PoE Splitter** that can split the 48~56V DC over the existing Ethernet cable into the selectable **12V** or **24V** DC power output. It supports passive **10/100/1000Mbps** Ethernet connection ability and complies with **IEEE 802.3at High Power over Ethernet** standard that supports up to **25 Watts output power** to powered device. To fulfill the growing industrial applications, the IPOE-162S is designed to work under the operating temperature range from **-40 to 75 Degree C** (-40 to 167 Degree F). The IPOE-162S is an ideal solution to transfer power to traditional network device with high power demand directly without the need to install additional power outlets and electrical cabling in the industrial environment.

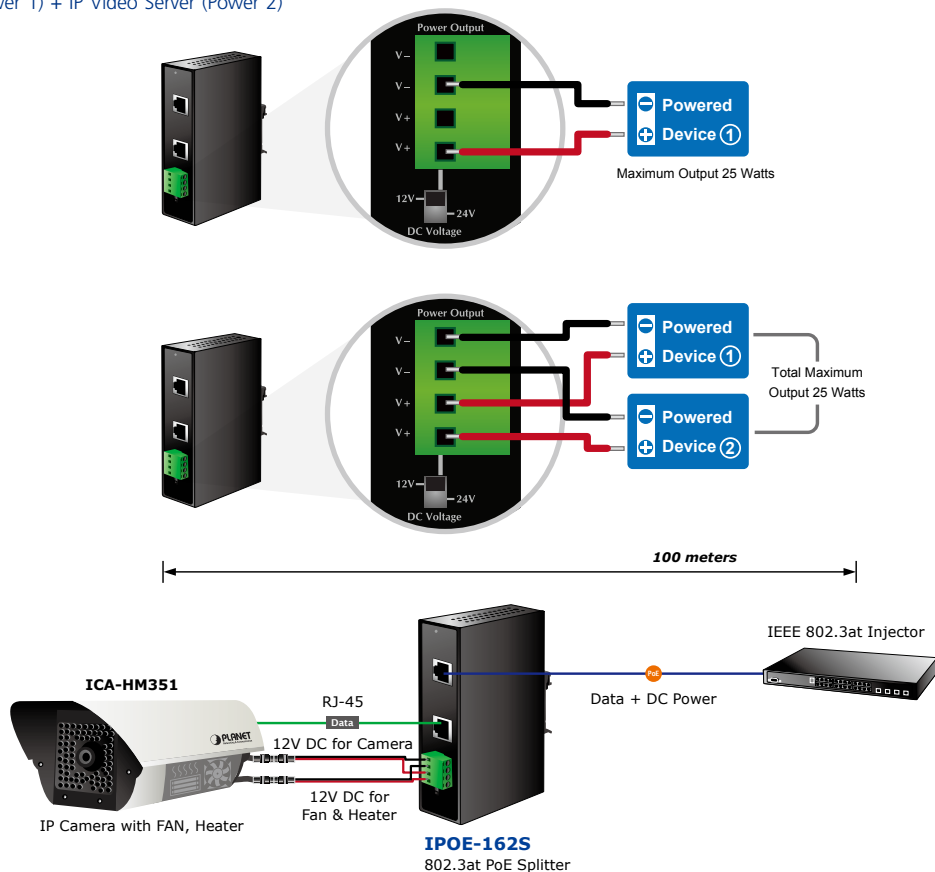
### Innovative Selectable DC Power Output Voltage

Via the innovative 12 volt / 24 volt DIP switch on the front panel, the IPOE-162S can supply either 24V DC power to industrial equipment or 12V DC output to the common network devices, such as wireless Access Point or IP camera. It highly increases the flexibility of the product applications.

### Dual Power Output Capability

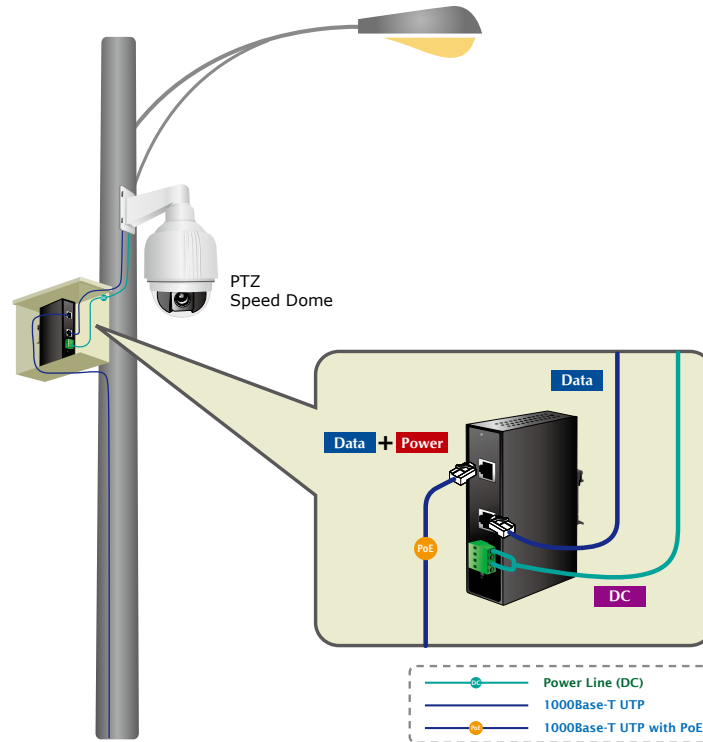
By supporting up to 25 Watts 802.3at Power over Ethernet cable, the IPOE-162S can satisfy not only single power-hungry equipment but also able to share the 25 Watts output power to two non-PoE Ethernet devices simultaneously through a 4-Pin terminal block. For example, the two power output can be applied as below to completely solve the need of electric source:

- IP Camera (Power 1) + Outdoor housing with fan and heater (Power 2)
- IP Camera (Power 1) + Pan & Tilt Motor (Power 2)
- Analog Camera (Power 1) + IP Video Server (Power 2)



### Environmentally Hardened Design

With compact, slim type IP30 industrial case protection, the space saving Industrial High Power PoE Splitter IPOE-162S can be placed in almost any difficult environment. It allows either DIN rail or wall mounting for efficient use of cabinet space. Being able to operate under the temperature range from **-40 to 75 Degree C**, the IPOE-162S is the ideal product for co-working with Industrial High Power Injector which can feed the power to Non-PoE devices up to 100 meters (328 feet) away on those harsh environments.



### Plug and Play, Easy Cabling Installation

With 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. Besides, connect through the Industrial High Power PoE Injector with the IPOE-162S, you could also have benefits including cost saving, easy networking planning and high network reliability.

## KEY FEATURES

### INTERFACE

- 2-Port RJ-45 interfaces
  - 1-Port **PoE Power+ Data** input
  - 1-Port **Data** output
- 2 DC out (4 Pin Terminal Block)

### POWER OVER ETHERNET SPLITTER

- Complies with IEEE 802.3at High Power over Ethernet, PD
- Splits the 48~56V DC power over RJ-45 Ethernet cable into DC 12V / 24V output
- Auto-detect of IEEE 802.3at PoE equipment, protecting devices from being damaged by incorrect installation
- Adjustable two different output voltage options (12V / 2A, 24V / 1A) to fit various devices
- Distance up to 100 meters

### INDUSTRIAL CASE / INSTALLATION

- IP30 metal case protection
- 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 operating temperature

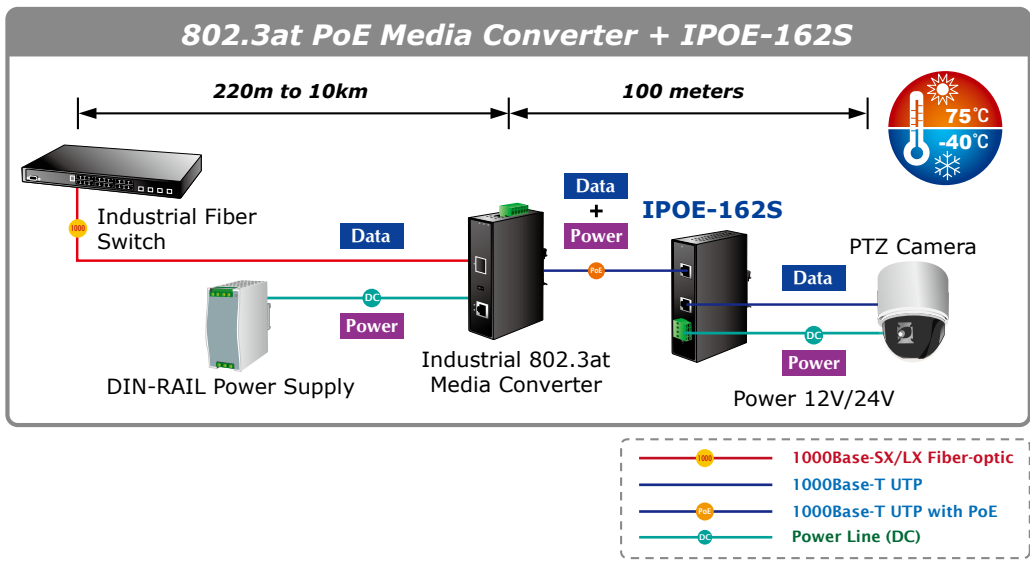
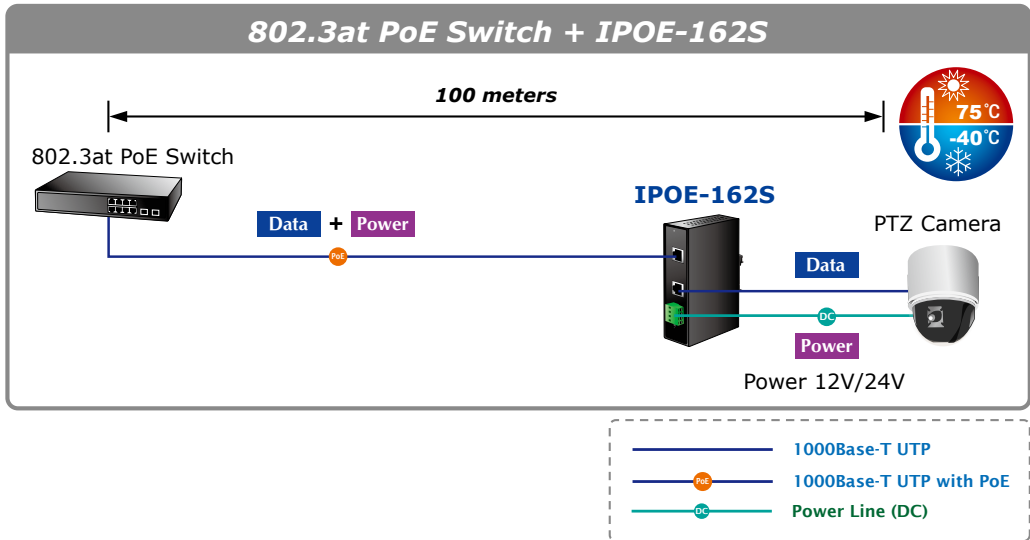
### STANDARD COMPLIANCE

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

APPLICATIONS

*The IEEE 802.3at Injector and Splitter Installation*

Due to the capability of IEEE 802.3at standard, the IPOE-162S can co-work with the IEEE 802.3at Gigabit PoE injector devices (like PLANET POE-161), High Power Switch or High Power Media Converter and transform non-PoE equipment to IEEE 802.3at PoE application. For a place where is hard to find the power inlet, the High Power PoE devices and the IPOE-162S operate as a pair to provide the easiest way to power your Ethernet devices that need high power input, such as PTZ (Pan, Tilt & Zoom) network cameras, PTZ Speed Dome Camera, color touch- screen Voice over IP (VoIP) telephones, and multi- channel wireless LAN access points.



**SPECIFICATION**

Product	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter	
Model	IPOE-162S	
<b>Hardware Specification</b>		
Interface	"PoE (Power + Data)" Input Port	1 x RJ-45 10/100/1000Base-T
	"Data" Out Port	1 x RJ-45 10/100/1000Base-T
	DC Out Plug Connector	1
LED Indicator	System: Power Ready x 1 (Green)	
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DIP Switch	12V DC / 24V DC output voltage	
Power Input	802.3at PoE 48~56V DC	
Power Output	12V / 24V DC, Max 2A (adjustable)	
Dimension (W x D x H)	135 x 87.8 x 32 mm	
Weight	421g	
Enclosure	IP30 Metal Case	
Installation	DIN Rail Kit and Wall Mount Ear	
ESD Protection	6KV DC	
Network Cable	10/100/1000Base-T: 4-Pair UTP Cat. 5, 5e, 6 distance up to 100m (328ft) EIA/TIA-568 100-ohm STP (100m)	
<b>Power over Ethernet</b>		
PoE Standard	IEEE 802.3at High Power over Ethernet	
Number of device can be powered	1 or 2(Vary on Device's Power Requirement, DC1 + DC2 can not over the 25.5Watts )	
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	FCC Part 15 Class A, CE	
Stability Testing	IEC60068-2-32(Free fall)	
	IEC60068-2-27(Shock)	
	IEC60068-2-6(Vibration)	
<b>Environment</b>		
Operating Temperature	-40 ~ 75 Degree C	
Storage Temperature	-40 ~ 85 Degree C	
Humidity	5 ~ 95% (Non-condensing)	

**ORDERING INFORMATION**

IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter
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**RELATED PRODUCTS**

IGTP-802T	1000Base-SX to 10/100/1000Base-T 802.3at PoE Industrial Media Converter (SC,MM) -550m
IGTP-802TS	1000Base-LX to 10/100/1000Base-T 802.3at PoE Industrial Media Converter (SC,SM) -10km
IGTP-805AT	1000Base-SX / LX to 10/100/1000Base-T 802.3at PoE Industrial Media Converter (mini-GBIC, SFP)
POE-161	IEEE 802.3at Gigabit High Power over Ethernet Injector (10/100/1000Mbps, Mid-Span, 30 Watts)