

Industrial IP67 1-Port 802.3at PoE+ Injector



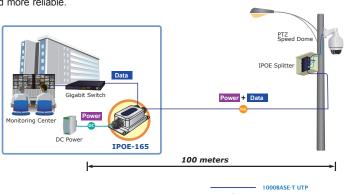
Ideal for Powered Devices that Consume High Power

Planet IPOE-165 Industrial **IP67-rated** Single-port **802.3at PoE Plus** Injector provides a maximum of up to **30 watts** for PoE output port, transmitting both the Gigabit Ethernet data and 802.3at PoE power over the UTP cable. It is specifically designed for such outdoor powered devices (PDs) as PTZ network cameras, PTZ speed dome cameras, multi-channel (11a/b/g/n) wireless LAN access points and other network devices that need a higher power to work stably.



Making Network Easier and More Reliable

The IPOE-165 can deliver 30-watt 54V DC power over Cat.5/5e/6 Ethernet cables which allow data and power to transmit simultaneously through the cable between the Injector (IPOE-165) and PoE PD or PoE Splitter (IPOE-162S/POE-162S). The maximum distance between the Injector and Splitter is 100 meters. As the IPOE-165 is also backward compatible with IEEE 802.3af PoE PD or PoE Splitter, the system administrator only has to use one single RJ45 Ethernet cable to carry both power and data to another device. It would make the network deployment easier and more reliable.



1000BASE-T UTP 1000BASE-T UTP with PoE Power Line (DC)

Physical Port

- Two 10/100/1000BASE-T Gigabit RJ45 ports
 - 1-port Data + Power output
 - 1-port Data input
- One 2-pin terminal block for power input. (Power Range: 24 ~ 56V DC)

Power over Ethernet

- 1-port data + power output
 - Complies with IEEE 802.3at Power over Ethernet plus
 PSE
 - Compatible with IEEE 802.3at/802.3af powered devices
 - Provides DC 44-56V power over RJ45 Ethernet cable to device with Ethernet port
 - Supports total PoE budget up to 30 watts for PoE output port
 - Auto detects powered device (PD)
 - Remote power feeding up to 100m

Industrial Case and Installation

- IP67-rated and IK10-rated aluminum case
- LED indicators for power LED and PoE-in-use
- · Wall-mount design
- Supports 6KV DC Ethernet ESD protection
- -40 to 75 degrees C operating temperature
- · Plug and Play installation



Weather-proof RJ45 Ethernet Connector and Shielded Plug

The IPOE-165 is ideal for installing an extended range of outdoor PoE devices such as outdoor PoE wireless access points, outdoor PoE IP cameras, outdoor PoE IP intercoms and many more. The IPOE-165 is equipped with 3 waterproof cable glands for direct-attach applications. Assembled with waterproof cable gland, it can make the general RJ45 connector weather-proof and provides tight and strong connection. Moreover, it comes with the industrial protection rating of IP67 capable of withstanding humidity, dirt, dust, shock, vibrations, heat and cold.

Environmentally-hardened Design

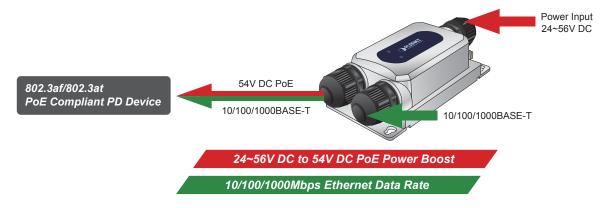
With industrial-level IP67-rated aluminum case, the IPOE-165 provides a high level of immunity against electromagnetic interference, and is able to protect itself from dust and water ingress and to operate under the temperature range from -40 to 75 degrees C. All these features ensure the highest level of reliability for mission-critical applications in any difficult environment.



Environmental Adaptations in Outdoor Area

Convenient and Reliable Power System

To facilitate the 802.3at PoE+ usage with commonly used **24~56V DC** power input for transportation and industrial-level applications, the IPOE-165 adopts 24~56V DC to 54V **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.

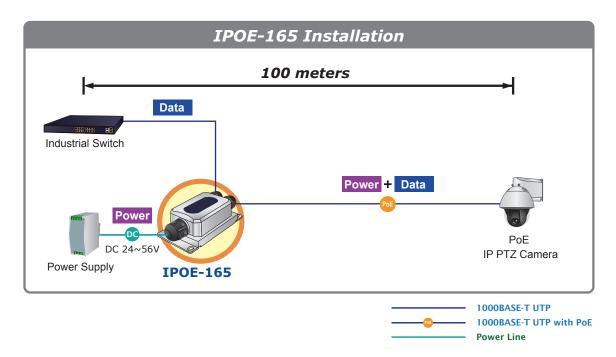




Applications

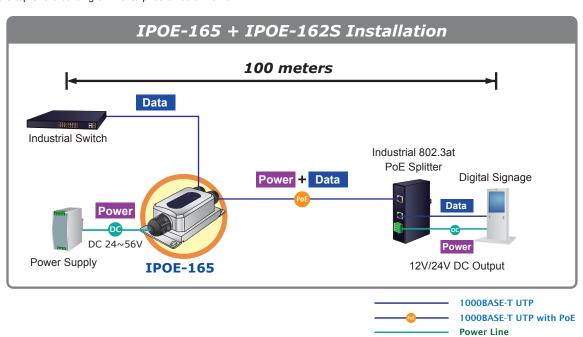
Connecting to IEEE 802.3at Compliant Powered Devices

Having the capability of IEEE 802.3at Power over Ethernet standard, the IPOE-165 can directly connect and inject power via RJ45 Ethernet cable to any IEEE 802.3at end-nodes like PTZ network cameras, PTZ speed dome cameras, multi-channel 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-165 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 network cameras, PTZ speed dome camera and multi-channel wireless LAN access points installed on the top of the building or in enterprise office or home.

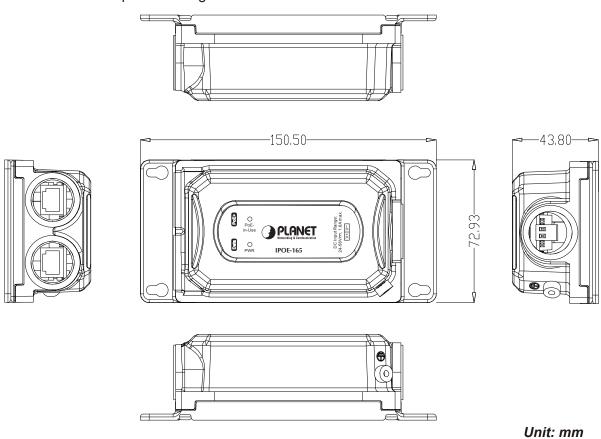


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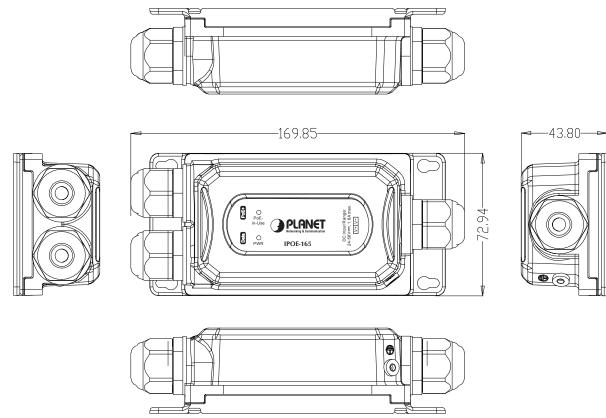


Diagram

• IPOE-165 without waterproof cable glands



• IPOE-165 with waterproof cable glands



Unit: mm



Product Specifications

Product		IPOE-165			
Hardware Sp	pecifications				
	Input Port	1 x 10/100/1000BASE-T " Data " in RJ45 port			
Interface	Output Dort	1 x 10/100/1000BASE-T Ethernet with IEEE 802.3at PoE+			
	Output Port	"Data + DC" out RJ45 port			
	Input Power Terminal Block	1 x 2-pin terminal block			
		- Pin 1/2 for Power (Pin 1: V+ / Pin 2: V-)			
Data Rate		10/100/1000Mbps			
LED Indicator		PWR (Green)			
		PoE-in-use x 1 (Green)			
Input Voltage		24~56V DC			
PowConsumption		Voltage	System on	Full Load (Max.)	
		DC 24V	0.72W	43.4W	
OWCONSUM	ption	DC 36V	0.72W	41.04W	
		DC 54V	1.08W	40.5W	
ESD Protection		Air 8KV DC			
		Contact 6KV DC			
Surge Protection		6KV			
Enclosure		IP67-rated and IK10 aluminum metal case			
Installation		Wall-mount ear			
Dimensions (W x D x H)		150 x 43.8 x 72.94 mm			
2	(,	169.85 x 43.8 x 72.94 mm, with cable gland			
Weight		339g			
		373g (with three waterproof cable glands)			
MTBF		>100,000 hours			
Network Cable		10BASE-T: UTP category 3, 5 cable (≤100m)			
		100BASE-TX: UTP category 5,5e cable (≤100m)			
		1000BASE-T: UTP category 5e,6 cable(≤100m)			
Power over E	Ethernet				
PoE Standard		IEEE 802.3at Power over Ethernet Plus / End-span PSE			
		Backward compatible with IEEE 802.3af Power over Ethernet			
PoE Power Output		54V DC, max. 30 watts			
PoE Power S		End-span			
Power Pin As		1/2 (+), 3/6 (-)			
Standards Co	onformance				
Regulatory Compliance Stability Testing		FCC Part 15 Class A			
		CE			
		IEC 60068-2-32 (Free fall)			
		IEC 60068-2-27 (Shock)			
		IEC 60068-2-6 (Vibration)			
		IEEE 802.3 10BASE-T Ethernet			
0, ,	,	IEEE 802.3u 100BASE-TX Fast Ethernet			
Standards Conformances		IEEE 802.3ab 1000BASE-T Gigabit Ethernet			
		IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus			
Facility 1		IEEE 8U2.3at Power ove	I EUIETNET PIUS		
Environment		40 == 1			
Operating Temperature		-40 ~ 75 degrees C			
Storage Temperature		-40 ~ 85 degrees C			
Humidity		5 ~ 95% (non-condensing)			

Ordering Information

IPOE-165	ndustrial IP67 1-Port 802.3at PoE+ Injector (-40~75 degrees C)



Related Products

IPOE-162	Industrial IEEE 802.3at Gigabit Power over Ethernet Plus Injector (Mid-span, 30 watts)
IPOE-260 Series	Industrial 2-port 10/100/1000T 802.3at PoE+ Injector Hub
IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter
IPOE-171-95W	Industrial Single-Port 10/100/1000Mbps 802.3bt PoE++ Injector (95 Watts, -40~75 degrees C, 12~48V DC)
IPOE-171-60W	Industrial Single-Port 10/100/1000Mbps 802.3bt PoE++ Injector (60 Watts, -40~75 degrees C)
IPOE-270 /IPOE-270-12V	Industrial 2-port Multi-Gigabit 802.3bt PoE++ Injector Hub
PWR-75-48	48V, 75W Din-rail Power Supply (NDR-75-48, adjustable 48-56V DC Output)
PWR-60-24	60W 24V DC Single Output Industrial DIN-rail Power Supply (-20 ~ 70 degrees C)
PWR-75-24	75W 24V DC Single Output Industrial DIN-rail Power Supply (-20 ~ 70 degrees C)

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