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Industrial IP67 Waterproof 2.5G 802.3bt 90W PoE++ Injector with 12-57VDC Power Input

Features

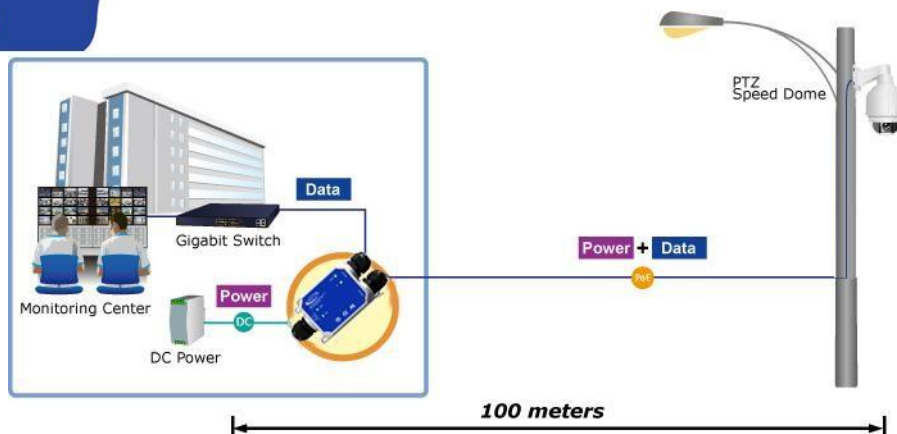
- ▶ Outdoor IEEE 802.3bt PoE Plus Power over Ethernet Injector, 56VDC, 90W max (backward compatible with IEEE 802.3af/at)
- ▶ Two 100/1000/2500Mbps RJ45 port for Data+ Power output and Data input
- ▶ One 2-pin terminal block for power input DC12-57V
- ▶ Up to 90-watt PoE budget (48VDC), 90-watt PoE budget (24VDC), 60-watt PoE budget (12VDC)
- ▶ Complies with IEEE802.3af/at/bt Standard
- ▶ Auto detect power device
- ▶ Remote power and Data feeding up to 100m
- ▶ Plug-and-play, requires no configuration
- ▶ Intelligent protection and Short Circuit Protection
- ▶ Wall-mount design with Mounting holes and Earthing kit included
- ▶ IP67-rated, dustproof and waterproof



Overview

Industrial-grade 2.5G 802.3bt 90W PoE++ Injector built for rugged environments with IP67-level protection. This injector complies with IEEE 802.3af/at/bt standard, enabling seamless integration with various PoE compliant devices like APs, IP Cameras, and IP Phones. Supports 2.5G transmission rates, delivering increased power over 4 pairs of wires. With a remarkable 100-meter range for remote power and data feeding, Its robust metal shell design, short-circuit protection, and plug-and-play convenience make it a durable and user-friendly solution. Offers exceptional power and data delivery, making it a versatile solution for various applications. Its rugged build and IP67-industrial level protection ensure robust performance even in harsh conditions. With intelligent power management and a IK10 vandal- proof design, this injector is your reliable, hassle-free choice for expanding network connectivity.

Application





Specifications

Hardware Specifications			
Interface	Input Port		
	1 x 10/100/1000/2500BASE-T “Data” in RJ45 port		
	Output Port		
	1 x 10/100/1000/2500BASE-T Ethernet with IEEE 802.3bt PoE++		
	“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	10/100/1000/2500Mbps		
Waterproofing Grade	IP67		
Wire Diameter	4 mm ≤ ODØ ≤ 8 mm		
Material	Die-cast aluminum casing with Nylon waterproof joint		
LED Indicator	Power: Power in LED, Boost voltage normal LED		
	POE out: on off af/at LED, on off bt LED		
Input Voltage	12-57V DC		
Power Consumption	Voltage	PoE Budget	Full Load (Max.)
	DC 12V	60W	65W
	DC 24V	90W	95W
	DC 48V	90W	95W
ESD Protection	Air 8KV DC		
	Contact 6KV DC		
Surge Protection	6KV		
Enclosure	IP67-rated and IK10 aluminum metal case		
Installation	Wall-mount ear		
Dimensions (L x W x H)	122 x 77 x 35 mm (without cable gland)		
	155 x 84 x 35 mm (with cable gland)		
Net Weight	280g		
Gross Weight	320g		
MTBF	>100,000 hours		
Network Cable	10BASE-T: UTP category 3, 5 cable (≤250m)		
	100BASE-TX: UTP category 5,5e cable (≤150m)		
	1000BASE-T: UTP category 5e,6 cable(≤100m)		
	2500BASE-T: UTP category 6, 6A cable(≤100m)		
Power over Ethernet			
PoE Standard	IEEE 802.3bt PoE++ types 3 PSE		
	Backward compatible with IEEE 802.3at PoE+		
PoE Power Output	802.3bt End-span/Mid-span		
PoE Power Supply Type	55V DC Max. 90 watts to 802.3bt PoE++ PD Max. 30 watts to 802.3at PoE+ PD		

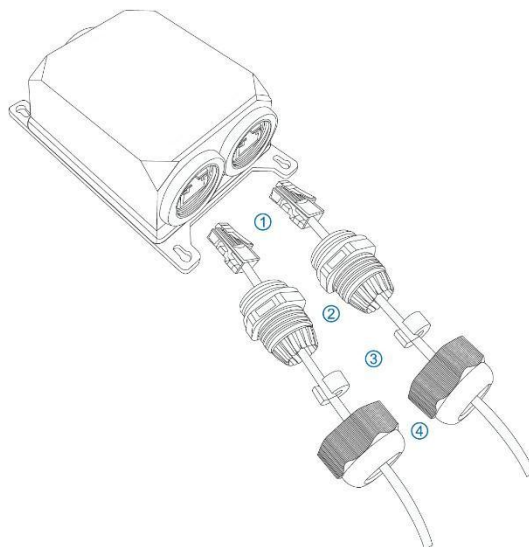
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Power Pin Assignment	802.3bt: 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-) End-span: 1/2 (+), 3/6 (-) Mid-span: 4/5 (+), 7/8 (-)
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A
	CE
Stability Testing	IEC 60068-2-32 (Free fall)
	IEC 60068-2-27 (Shock)
	IEC 60068-2-6 (Vibration)
Standards Conformances	IEEE 802.3 10BASE-T Ethernet
	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 Plus
	IEEE 802.3bt Power over Ethernet Plus Plus
Environment	
Operating Temperature	-40 ~ 80 degrees C
Storage Temperature	-40 ~ 85 degrees C
Humidity	5 ~ 95% (non-condensing)

Order Information

Model	Description
	Industrial IP67 Waterproof 2.5G 802.3bt 90W PoE++ Injector with 12-57VDC Power Input
Mounting Options	► Wall Mount Installation
Power Options	► 12-57VDC Power Supply. Open Wire for Terminal Block.
	► Power Supply is to be purchased separately.

Connection Splitting Diagram



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Diagram: without waterproof cable glands (Unit: mm)

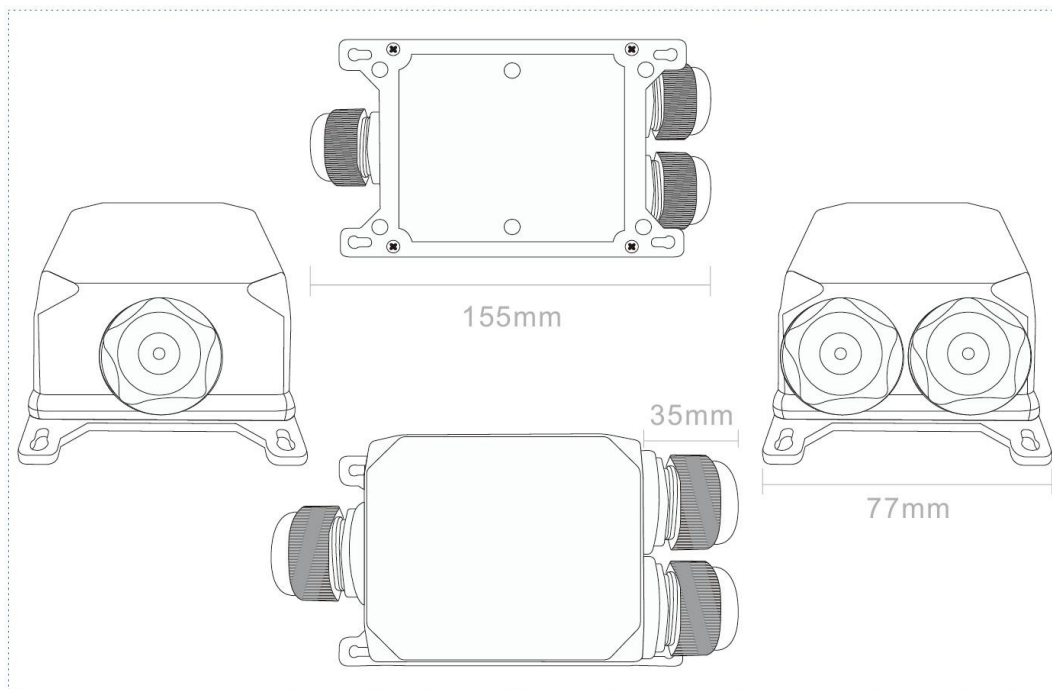


Diagram: without waterproof cable glands (Unit: mm)

