

IPE90-bt

1 Channel Din-rail 90W 802.3bt PoE Injector



Product Description:

The IPE90-bt is a single-channel PoE injector that offers a compact and cost-effective solution fully compliant with the IEEE 802.3bt Type 4 standard, capable of delivering up to 90W of power to connected devices. To meet varying network speed requirements, the product is available in four versions: 1G, 2.5G, 5G, and 10G. Designed for high-power applications, it reliably supports Wi-Fi 7 access points, LED lighting systems, PoE speakers, and other demanding high-density installations.

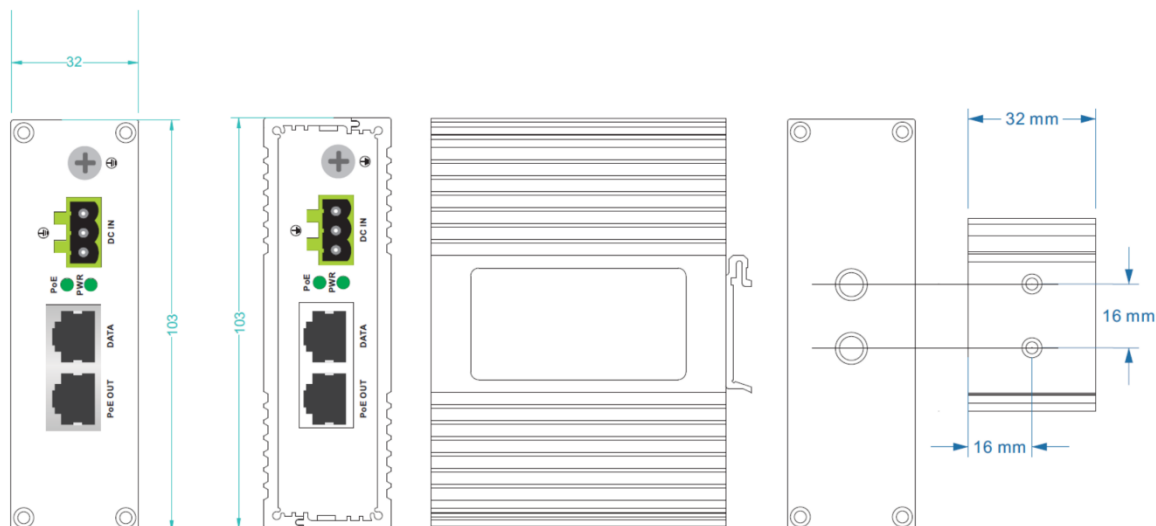
Featuring a wide DC input range of 45–56V, this injector eliminates the need for an external power supply. It provides a secure, stable, and economical Power over Ethernet solution that seamlessly integrates into your existing network infrastructure.

Product Features:

- Conforms to IEEE802.3af, IEEE802.3at, IEEE802.3bt-Type3, IEEE802.3bt-Type4
- Up to 90W of Power output on 4-pairs
- Auto-detect of IEEE802.3af, IEEE802.3at, IEEE802.3bt Powered Devices
- Support 4 versions based on 1G/2.5G/5G/10G data transport flow
- LED indicators power input and PoE output indication
- Transport Distance up to 100 meters
- ESD protection level 6kV
- DC IN port surge protection level 8/20us DM/CM 3KA
- RJ45 port Surge protection level 10/700us DM/CM 6KV
- Wide power input: 45~56VDC
- Wide working temperature: -40~75°C
- IP40 Aluminum case
- 200,000 hours MTBF (Parts count reliability prediction)
- EMI: FCC Part 15, CISPR (EN55022) Class A
- EMS: EN61000-4-2 (ESD), EN61000-4-3 (RS)
- EN61000-4-4 (EFT), EN61000-4-5 (Surge)

- EN61000-4-6 (CS), EN61000-4-6 (Common Mode Conduction)
- Industrial: IEC6100-6-2
- Railway: EN50155, EN50121-4
- Transportation: NEMA TS-2
- Warranty: 5 years

Product Dimension:



Product Specifications:

Attributes	
Networking Interfaces	2×1G/2.5G/5G/10G Shielded RJ-45 ports
LED Indicators	System Indicator: DC Power User Indicator: Channel Power
Copper Cable	
10Base-T	2-pair UTP/STP Cat. 3,4,5/5E,6 cable EIA/TIA-568 100-ohm (100m)
100Base-T	2-pair UTP/STP Cat. 5/5E,6 cable EIA/TIA-568 100-ohm (100m)
1000Base-T	4-pair UTP/STP Cat. 5E,6 cable EIA/TIA-568 100-ohm (100m)
2500Base-T	4-pair UTP/STP Cat. 5E,6 cable EIA/TIA-568 100-ohm (100m)
5000Base-T	4-pair UTP/STP Cat. 6, 6A,7 cable EIA/TIA-568 100-ohm (100m)
10000Base-T	4-pair UTP/STP Cat. 6A,7, 8 cable EIA/TIA-568 100-ohm (100m)
Physical	
Dimensions	103x78x32mm
Weight	0.5kg
Operating Temperature	-40 to 75°C
Storage Temperature	-50 to 85°C
Operating Humidity	5 to 90% Noncondensing

Storage Humidity	5 to 95% Noncondensing
Power Method	45-56VDC
EMC Safety	FCC, CE, RoHS
ESD Protection	6kV
DC IN port surge protection	8/20us DM/CM 3KA
LAN ports Protection	10/700us DM/CM 6KV
Reliability	200,000 hours MTBF
Power over Ethernet	
Input Power Volt	45 to 56 VDC
PoE Interfaces	1×1G/2.5G/5G/10G RJ45 Port
PoE Standard	IEEE802.3af, IEEE802.3at, IEEE802.3bt-type3, IEEE802.3bt-type4
Max. PoE Wattage per Port	90W
PoE Pin Assignment	Alternative A: V+ (RJ45 Pin3,6), V- (RJ45 Pin 1,2) Alternative B : V+ (RJ45 Pin4,5), V- (RJ45 Pin 7,8)
Package List	
Industrial PoE Injector	1pcs
User Manual	1pcs
Warranty Card	1pcs

Order Information:

Switch Models	
IPE90-bt-10G	1 Channel 10G Din-rail 90W 802.3bt Industrial PoE Injector, IEEE802.3bt-type4
IPE90-bt-5G	1 Channel 5G Din-rail 90W 802.3bt Industrial PoE Injector, IEEE802.3bt-type4
IPE90-bt-2.5G	1 Channel 2.5G Din-rail 90W 802.3bt Industrial PoE Injector, IEEE802.3bt-type4
IPE90-bt-1G	1 Channel 1G Din-rail 90W 802.3bt Industrial PoE Injector, IEEE802.3bt-type4