

POE302-MS

Gigabit Power over Ethernet Injector (PoE+)

Overview

The IFS Gigabit Power over Ethernet Injector is a quick and easy solution that can be used when a network device does not provide the functionality as a power source equipment (PSE), such as a non-PoE switch, and yet the edge device being deployed is a PoE powered device (PD).

This module provides the ability to combine Gigabit Ethernet data and PoE on a single category cable for deployment of a PoE powered edge device up to 100m (328 ft.). This provides a cost-effective and efficient power distribution cable management solution for a PoE-centric IP network.

The 100m (328 ft.) distance is based on the EIA-568 standard and is the maximum distance between two Ethernet devices. The IFS Power over Gigabit Ethernet Injector can be deployed at any location within the 100m (328ft.) cable run; however, typically this device would be installed closer to the non-PoE device.

This device facilitates easier network planning by eliminating restrictions of edge device placement near AC power outlets and reduces the need for AC wiring and installation costs while delivering higher reliability.



Details

- Plug-and-play design
- Can be used with other IEEE 802.3at compliant devices
- Supports 10/100/1000-TX Ethernet
- Auto-detect of PoE IEEE 802.3at and 802.3af equipment providing protection from incorrect installation
- Current overload detect
- PoE Ready/In-use LED indicator
- Can deploy data and PoE on a single Category cable up to 100m (328 ft.) to a PoE powered (PD) edge device

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Technical specifications

General

Category	PoE injector
Port type	Copper (RJ45)
Port speed	Gigabit

Electrical

Power consumption	40 W
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Physical

Physical dimensions	95 x 70 x 25 mm 3.7 x 2.75 x 1.0 in.
Net weight	83 g .3 lbs.
Material	Metal

Environmental

Operating temperature	0 to +50°C
Storage temperature	-10 to 70°C
Relative humidity	5 to 90% noncondensing
Environment	Indoor
MTBF	>50,000 hrs. @ 25°C

Ethernet

Data Rate	10/100/1000Mbps
Throughput (packet per second)	148810pps@64Bytes
IEEE Standards	IEEE 802.3 10Base T / IEEE 802.3u 1000Base-TX / IEEE 802.3ab 1000Base-T / IEEE 802.3at PoE+
EIA/TIA-568 Standards	10 Base-T 2 pair UTP Cat 3,4,5 to 328ft (100m) 100 Base-TX 2 Pair UTP Cat 3,4,5,5e to 328ft (100m) 1000 Base-T 2 Pair UTP Cat 5,5e,6 to 328ft (100m) EIA/TIA-568 100ohm STP (100m)

Power Over Ethernet (PoE)

PoE Standard	IEEE 802.3at Power over Ethernet / PSE
PoE Power Supply Type	Mid-Span / Type B
PoE Output Pin Assignment	4/5(+), 7/8(-)
PoE Output Voltage	56VDC

Connectors & Indicators

Ethernet + DC Out	1 x RJ-45 connector (10/100/1000Base-TX with IEEE 802.3at PoE PSE for data + DC out)
Ethernet Data In	1 x RJ-45 connector (10/100/1000Base TX for data in)
DC Input	5.5 x 2.5 mm DC receptacle
LED Indicator	1-power; 1-PoE Ready/In-use

Electrical & Mechanical

Input Power	56VDC @ 0.53A
PoE Output Power	56VDC, 30 watts max., 700mA
Maximum Powered Devices	1

Accessories

PS56VDC65W-US	56VDC 65W Power Supply
PS56VDC65W-UK	56VDC 65W Power Supply
PS56VDC65W-EU	56VDC 65W Power Supply



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