POE302-MS
IEEE 802.3at

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.

STANDARD FEATURES

Installation
- Compact size
- Plug-and-play design
- Standalone or wall-mount installation
- Can be used with other IEEE 802.3at compliant devices

Standards Compliance
- Supports 10/100/1000-TX Ethernet
- Complies with IEEE 802.3/802.3u/802.3ab
- Complies with IEEE 802.3at (PoE+) Standard

PoE Circuit
- 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

Physical Ports
- One RJ-45 connector for data
- One power connector for power input
- One RJ-45 connector for data and 56VDC output to a single Category cable

Network Cable
- For use with EIA568 Category 5 or better cables
- Can deploy data and PoE on a single Category cable up to 100m (328 ft.) to a PoE powered (PD) edge device

Warranty
- 3-year warranty

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Specifications

Ethernet	Description
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	Category cable 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

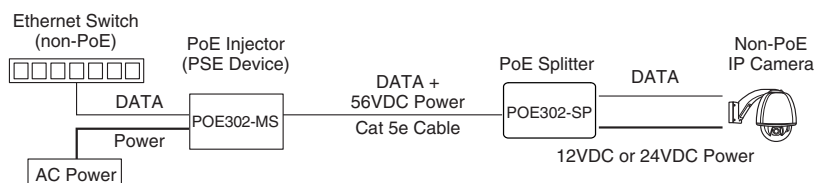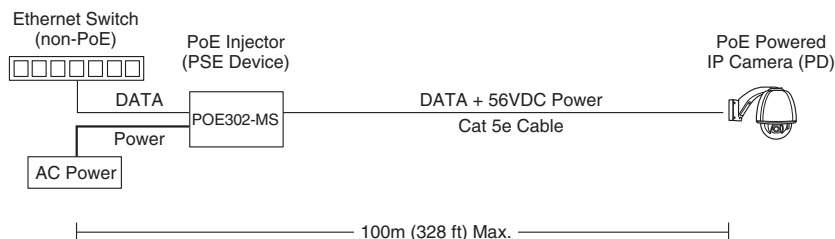|	
Ethernet + DC Out	1 x RJ-45 connector (10/100/1000Base-TX with IEEE 802.3at PoE PSE for data + DC out)
Ethernet Data In	1 x RJ-45 connector (10/100/1000Base TX for data in)
DC Input	5.5 x 2.5 mm DC receptacle
LED Indicator	1-power; 1-PoE Ready/In-use

Electrical & Mechanical

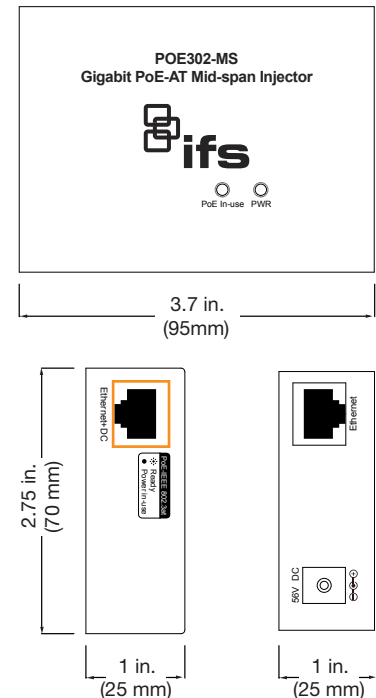|	
Input Power	56VDC @ 0.53A
PoE Output Power	56VDC, 30 watts max., 700mA
Maximum Powered Devices	1
Enclosure	Metal
Dimensions (W x D x H)	3.7 x 2.75 x 1.0 in.; (95 x 70 x 25mm)
Weight	.3 lbs. / 83g

Environmental

MTBF	>50,000 hrs. @ 25°C
Operating Temperature	0ºC~50ºC
Storage Temperature	-10ºC~70ºC
Relative Humidity	5%-90% (non-condensing)

Typical Applications

Dimensional Diagrams

**POE302-MS
Gigabit PoE-AT Mid-span Injector**

3.7 in. (95mm)

2.75 in. (70 mm)

1 in. (25 mm)

1 in. (25 mm)

Ordering Information

POE302-MS	Gigabit PoE+ Mid-Span Injector

Note: External power supply must
be purchased separately.

Accessories

PS56VDC65W-US	56VDC 65W Power Supply

Note: Use "-UK" or "-EU" suffix for UK or European
type power supply plug respectively.

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Specifications subject to change without notice.