



## Product Data Sheet

# POE302-MS

## Gigabit Power over Ethernet Injector (PoE+)

### Overview

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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

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- 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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### Specifications

#### 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
- 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 0°C~50°C
- Storage Temperature -10°C~70°C
- Relative Humidity 5%-90% (non-condensing)

#### Accessories

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

### Ordering Information

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