POE304-MS
POE304-EX-4P

PoE-bt Injector and Extender

OVERVIEW

The IFS® PoE-bt Ethernet Injector and 4-port Extender by Interlogix provide a quick and easy solution to PoE-bt power (60w) on Ethernet cable. Utilizing the Category Network cable, the injector remotely powers a 4-port extender that provides data and up to 15.4w PoE per port to power devices beyond 100 meters (328 ft.).

The POE304-MS injector is used at the head-end to transmit Ethernet data and PoE-bt power (60w) on a single network cable. This allows for remote deployment of Ethernet powered device (PD) via the MS304-EX-4P 4-port PoE Extender.

The IFS POE304-EX-4P is remotely powered via Ethernet cable from either the IFS POE304-MS injector or IFS NS3553-4P-1T-2S Industrial Gigabit PoE-Ultra Managed Switch eliminating the need for local power requirements. The POE304-EX-4P can then transmit up to 4-ports of Ethernet data and PoE-af/at/bt power dependent on the Powered Devices (PD) power demand.

The IFS PoE-bt Solution facilitates easier network planning by eliminating restrictions of edge device placement near AC power outlets and reducing the need for AC wiring and installation costs.

STANDARD FEATURES

Installation
- Compact size
- Remote power to network edge flexibility
- Standalone, wall-mount or DIN-rail (POE304-EX-4P only)
- POE304-EX-4P can also be used with the IFS NS3553-4P-1T-2S Industrial Gigabit PoE-Ultra Managed Switch

Standards Compliance
- 10/100/1000Base-TX Ethernet support
- IEEE 802.3/802.3u/802.3ab compliance
- IEEE 802.3af/at/bt or IFS PoE-Ultra

PoE Circuit
- Auto-detect of PoE IEEE 802.3af/at/bt or IFS PoE-Ultra equipment to assist in installation
- Current overload detection
- LED Indicators for PoE In, PoE Out, Data

Physical Ports
- POE304-MS: (1) RJ45 Data in / (1) RJ45 Data/PoE-bt (60w) out
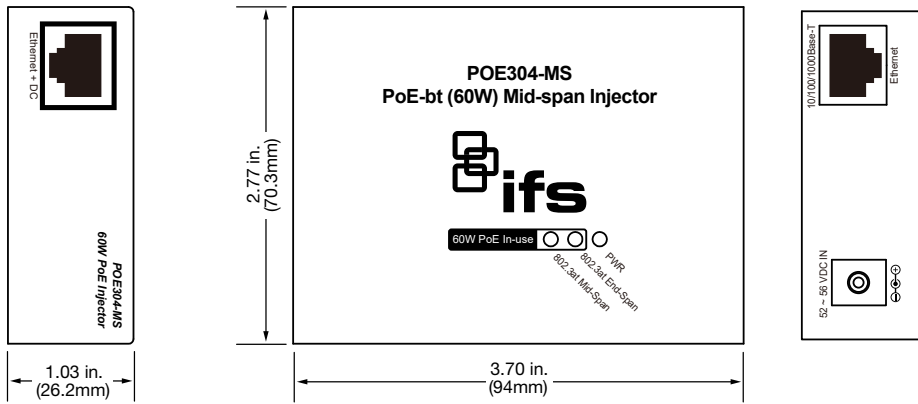- POE304-EX-4P: (1) RJ45 Data/PoE-bt (60w) in / (4) RJ45 Data/PoE-af/at out

Network Cable
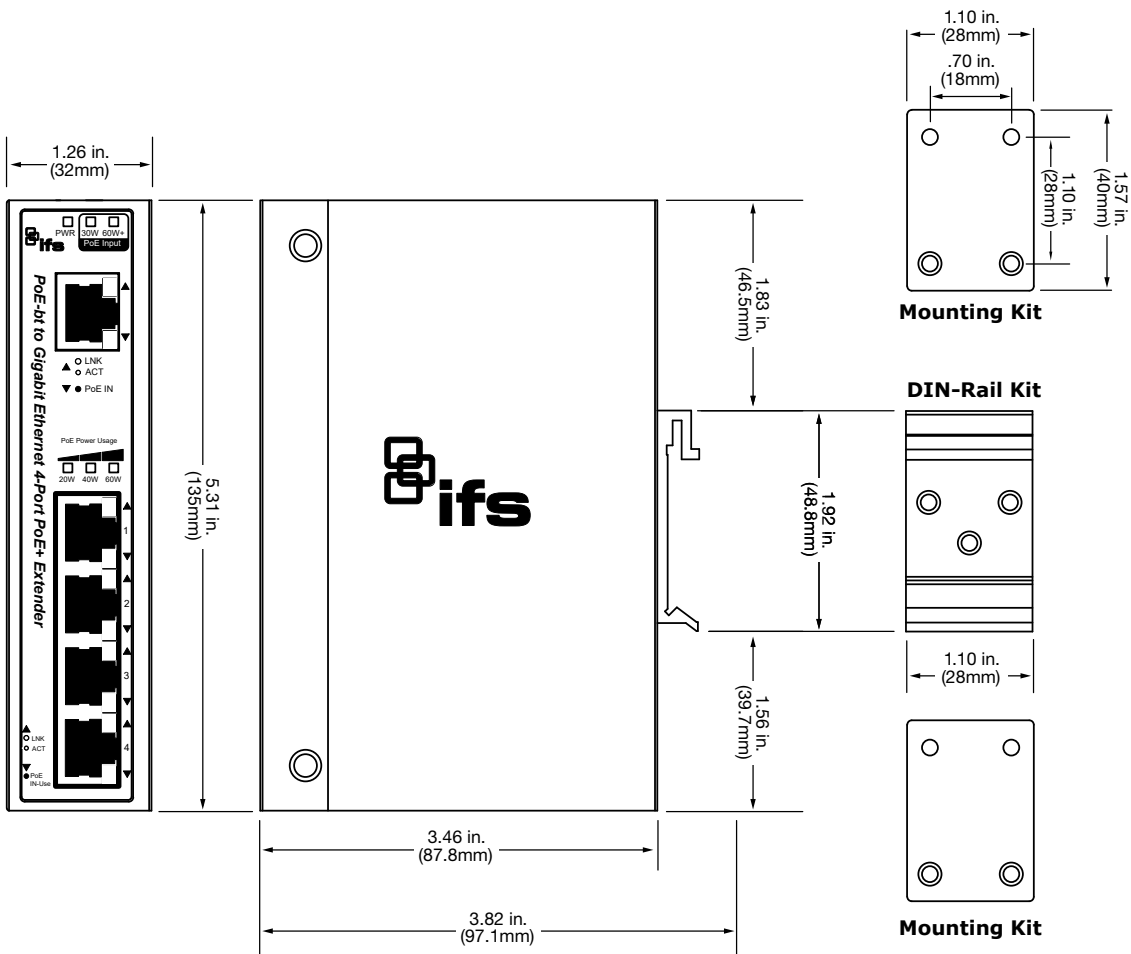- For use with EIA568 Category 5 or better cables

Warranty
- 3-year warranty

Dimensional Diagrams

POE304-MS

POE304-MS
PoE-bt (60W) Mid-span Injector

ifs

60W PoE In-use

PWR
802.3at End-Span
802.3at Mid-Span

Ethernet + DC

POE304-MS
60W PoE Injector

10/100/1000Base-T

Ethernet

52 ~ 56 VDC IN

2.77 in.
(70.3mm)

1.03 in.
(26.2mm)

3.70 in.
(94mm)

POE304-EX-4P

PWR 30W 60W+
PoE Input

ifs

PoE-bt to Gigabit Ethernet 4-Port PoE+ Extender

LNK
ACT
PoE IN

PoE Power Usage
20W 40W 60W

1
2
3
4

LNK
ACT
PoE
IN-Use

ifs

1.26 in.
(32mm)

5.31 in.
(135mm)

3.46 in.
(87.8mm)

3.82 in.
(97.1mm)

1.83 in.
(46.5mm)

1.56 in.
(39.7mm)

1.10 in.
(28mm)

.70 in.
(18mm)

1.10 in.
(28mm)

1.57 in.
(40mm)

Mounting Kit

DIN-Rail Kit

1.92 in.
(48.8mm)

1.10 in.
(28mm)

Mounting Kit

Specifications

PART NO.	POE304-MS	POE304-EX-4P

		POE304-MS	POE304-EX-4P
Ethernet	Data Rate	10/100/1000Mbps	
	Throughput (packet per second)	N/A	7.44Mpps @ 64 bytes
	IEEE Standards	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Flow Control	
	Switch Fabric	N/A	10Gpbs
	Latency	4.285	
	Maximum Frame Size	N/A	9K Bytes
	EIA/TIA-568 Standards	Category 5 or better	
Power Over Ethernet (PoE)	PoE Standard	IEEE 802.3af/at/bt or IFS PoE-Ultra	
	PoE Power Supply	PS56VDC65W-US	
	PS56VDC65W-US Output Pin Assignment	PoE-bt Output 1/2(-), 3/6(+), 4/5(+), 7/8(-)	IEEE802.3af/at Output 1/2(-), 3/6(+)
Connectors & Indicators	Ethernet + PoE In	1 x RJ-45 (Non-PoE)	1 x RJ-45 (PoE-bt)
	Ethernet + PoE Out	1 x RJ-45 (PoE-bt)	4 x RJ-45 (PoE-af/at)
	LED Indicators	PWR (Green), PoE-at (Mid-Span/End Span - 2 x Green)	PWR (Green), PoE Power In (Mid-Span/End-Span - 2 x Green), PoE Power Meter (3 x Green), Input Port - LNC/ACT (Green) PoE (Amber), Per Port Output - LNC/ACT (Green) PoE (Amber)
Electrical & Mechanical	Input Power	1 x DC Jack - 56VDC (60w)	1 x RJ45 - PoE-bt (60w)
	PoE Output Power	1 x Up to 60w (PoE-bt)	4 x PoE-af/at per port - (50w maximum total shared power budget)
	Enclosure	Metal (Wall-mountable)	Metal (DIN-rail or Wall-mountable)
	Dimensions (W x D x H)	3.7 x 2.8 x 1 in. (95 x 70 x 26mm)	5.3 x 3.5 x 2.2 in. (135 x 88 x 56mm)
	Weight	0.52 lbs. (237g)	1.6 lbs. (715g)
Environmental	Operating Temperature	0°C~50°C	-40°C~75°C
	Storage Temperature	-10°C~70°C	-40°C~85°C
	Relative Humidity	0%~95% (non-condensing)	
Standards Compliance	Regulatory	FCC Part 15 Class A, CE	
	EMI	EN 55022 CLASS A EN61000-3-2 EN61000-3-3	

POE304-MS
POE304-EX-4P
PoE-bt Injector and Extender

Ordering Information

POE304-MS	PoE-bt Gigabit Ethernet Injector
POE304-EX-4P	PoE-bt to Gigabit Ethernet 4-port PoE+ Extender

Accessories

PS54VDC72W-US	54VDC (72w) Power Supply (required for POE304-MS)

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