

1-Port 2.5GbE PoE+ Injector, 10M/100M/1G/2.5G Ethernet, PoE/PoE+ 802.3af/802.3at, 30W, Multi-Gigabit Unmanaged Midspan Inline Power Over Ethernet, TAA

Product ID: AF212C-POE-INJECTOR



This 1-port 2.5GbE PoE+ Injector serves as a Power Sourcing Equipment (PSE) device and enables Ethernet speeds of 10Mbps, 100Mbps, 1Gbps, and 2.5Gbps. This TAA-compliant midspan inline injector can transmit network data and power up to 328ft (100m) for remote Powered Devices (PD).

Multi-Gigabit single port PoE injector supports the IEEE 802.3af and 802.3at PSE standards, and delivers up to 30W output (54V DC, 0.6A). This enables seamless data and power transmission over Cat5/5e/6/6a to remote Powered Devices (PD) such as IP cameras, access control devices, remote kiosks (POSs), wireless access points (APs), PoE lighting, and digital signage. A built-in LAN Transformer reduces EMI to maintain strong, reliable signal strength across different environments.

All Ethernet cables can be routed from one side of the unit for efficient and organized cable management. The compact design (4x2.3x1.3-inch-100x58.4x33.4 mm) ensures straightforward integration into existing network infrastructure, saving space and time during installation. Integrated anchor points allow for surface and wall mounting.

Certifications, Reports and Compatibility



Applications

Features

- **2.5GbE POE INJECTOR:** Multi-gigabit single port midspan PoE+ injector supports up to 2.5Gbps with auto-negotiation; TAA-compliant Power Sourcing Equipment supports up to 30W PoE/PoE+; Features level-4 ESD protection for reliable performance and durability
- **NETWORK FLEXABILITY:** Auto-negotiation between 2.5Gbps & 10/100/1000Mbps Ethernet; Deliver data/power to PoE devices up to 328ft/100m w/Cat5/5e/6/6a cabling; Unmanaged inline injector w/built-in LAN transformer for electrical isolation; 2K surge protection
- **HASSLE-FREE INSTALLATION:** Integrated anchor points for surface mounting; Streamline deployment without additional software/settings; Connect the PoE injector to the network (e.g., switch or router) & the remote PD via standard Cat5/e or Cat6/6a cabling
- **APPLICATIONS:** Enable data & power over a single RJ45 connection in high end enterprise access points such as high resolution IP cameras; Maintain existing network infrastructure while adding PoE functionality to support remote devices
- **TECH SPECS:** x2 RJ45 ports (data/data+power); 54VDC 0.6A output; 30W max output; Compliant with IEEE 802.3af and 802.3at; 10M/100M/1G/2.5G with auto negotiation; WoL/PXE/9K jumbo frames; Wall mountable; Dimensions 4x2.3x1.3-inch (100x58.4x33.4mm)

Hardware

Warranty	2 Years
Ports	1
Industry Standards	IEEE 802.3at Type 2 / PoE+ (30 W) IEEE 802.3af Type 1 / PoE (15.4 W) IEEE 802.3ab (1000BASE-T) IEEE 802.3u (100BASE-TX) IEEE 802.3i (10BASE-T) IEEE 802.3bz (2.5GBASE-T) IEC 61000-4-2 Level-4 ESD protection (8kV contact/15kV air)
Chipset ID	Monolithic Power Systems - MP3924

Performance

Wake On Lan	Yes
Maximum Data Transfer Rate	2.5 Gbps

Maximum Cable Length	328.0 ft [100 m]
ESD Protection	+/-8kV (Contact) +/-15kV (Air)
Compatible Networks	2.5G/1G/100Mbps/10Mbps
Auto MDIX	Yes
PXE	Yes
Jumbo Frame Support	9K max.
Supported Protocols	Wake-on-LAN (WoL)

Connector(s)

Connector A	1 - RJ-45 (PoE+)
Connector B	1 - RJ-45
External Ports	1 - IEC 60320 C6

Software

OS Compatibility	No drivers or software required
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Indicators

LED Indicators	1 - Power LED: , Steady Green - Power is being supplied to the PoE Injector , Off - No power is being supplied to the PoE Injector
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Power

Power Source	Standard 120V Power Cords
Input Voltage	100 - 240 AC
Input Current	0.8 A
Output Voltage	54 DC
Output Current	0.6 A
Power Consumption (In Watts)	32.4

Environmental

Operating Temperature	32F to 122F (0C to 50C)
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Storage Temperature	14F to 158F (-10C to 70C)
Humidity	5~95% RH (Non-Condensing)

Physical Characteristics

Color	Black
Material	Plastic
Product Length	3.9 in [10.0 cm]
Product Width	2.3 in [5.8 cm]
Product Height	1.3 in [3.3 cm]
Weight of Product	3.5 oz [100.0 g]

Packaging Information

Package Length	8.3 in [21.0 cm]
Package Width	4.9 in [12.4 cm]
Package Height	2.0 in [5.0 cm]
Shipping (Package) Weight	12.8 oz [364.0 g]

What's in the Box

Included in Package	1 - PoE Injector
	1 - 6ft (1.8m) NA Power Cord
	1 - Quick-Start Guide

Warranty Information

Warranty	2 Years
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****Product appearance and specifications are subject to change without notice.***