2 Port Gigabit High Power PoE Injector

ETH-INJ-2AT-1

Industrial Gigabit PoE with Flex Power Technology

The **ETH-INJ-2AT-1 Flex PoE Injector** integrates **two completely independent IEEE 802.3af/at–compliant PoE injectors** within a single unit. Each line operates autonomously and includes **one Ethernet data input port and one corresponding PoE output port**, forming two separate and isolated PoE channels.

Each PoE port independently performs IEEE 802.3af/at signature detection and will only apply power after a valid powered device (PD) is detected. This design ensures that the operation, power delivery, and fault conditions of one port have no impact on the other, allowing two PoE devices to be powered independently from the single unit.

Intelligent PoE detection protects non-PoE equipment from accidental damage and ensures compatibility with IEEE 802.3af/at–compliant devices. Power is supplied on Ethernet pins **1/2 (V+) and 3/6 (V–)** in accordance with the IEEE end span standard. With a wide **12–57 VDC input range using Flex Power technology,** the ETH-INJ-2AT-1 is ideal for many applications where 24VDC is readily available, boosting the voltage up to the IEEE 802.3af/at standard of 48-52VDC.

Note: Only IEEE 802.3af/at–compliant powered devices can be used, as each injector must detect a valid PoE signature before enabling power output.
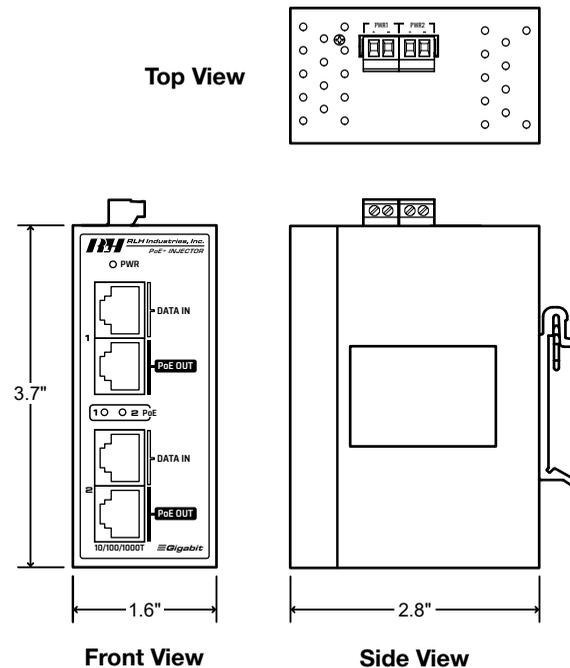

2 Port Gigabit PoE Injector

Key Features

- Two injectors with each having 1 Ethernet port and 1 PoE port

- Fully compliant with IEEE 802.3af/at standard

- Auto protection for over voltage power input and over current output

- Provide up to 30W per PoE output

- Wide range power input from 12 to 57VDC

- Rigid IP-30 housing design

- DIN-rail and wall mountable

- Hardened to operate from -40°F to +185°F (-40°C to +85°C)

Dimensions

Top View

3.7"

1.6"

Front View

2.8"

Side View

Specifications

LED Indicators	Power Indicator (PWR): Green: Power LEDx1	
	PoE Indicator: 2x Blue for PoE enable Indicator, Blink for PoE device detected, OFF for PoE device not detected	
Power	Input	Dual redundant 12~57VDC on 4-pin terminal block
	Power Consumption	1W (Not including linked PoE Devices/PDs)
	PoE Power Budget	30W max. at 12VDC
		60W max. at 24-57VDC
	Overload current protection: Present	
	Reverse polarity protection: Present	
Construction	Powder Coated Steel IP-30 rated	
Dimensions	41mm (W) x 70mm (D) x 95mm (H) (1.61" (W) x 2.75" (D) x 3.74" (H))	
Weight	370G (13oz)	
Environmental	Storage Temperature	-40°C to 85°C (-40°F to 185°F)
	Operating Temperature	-40°C to 75°C (-40°F to 167°F)
	Operating Humidity	5% to 95% Non-condensing
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B	
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 155 B class A	
EMS	EN 55024 (IEC/EN 61000-4-2 (ESD: Contact 4KV, Air 8KV), IEC/EN 61000-4-3 (RS:3V), IEC/EN 61000-4-4 (EFT Power 0.5KV), IEC/EN 6100-4-5 (Surge: Power 0.5KV, Signal 1KV), IEC/EN 61000-4-6 (CS:3V), IEC/EN 61000-4-8 (PFMF), IEC/EN 61000/4/11 (DIP)	
Physical	IEC60068-2-27, IEC60068-2-31, IEC60068-2-6	
Safety	EN 60950-1 (LVD), UL61010-1, UL61010-2-201	
Compliance	CE, FCC Class A, and RoHS Compliant	
MTBF	3,165,390 hrs	
Warranty	5 Years - Visit www.fiberoptic.com for warranty information and coverage details	

Ordering Information

Description	Part Number
2-Port Industrial PoE Injector, 10/100/1G PoE+ (30 Watt), Unmanaged, Flex Power Input 12-57VDC	**ETH-INJ-2AT-1**

Contact

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