

Industrial Gigabit PoE Injector - High Speed/High Power 90W - 802.3bt PoE++ 52V-56VDC DIN Rail  
UPoE/Ultra Power Over Ethernet Injector Adapter -40C to +75C Rugged - TAA

**Product ID:** POEINJ1G90W



This Gigabit Power over Ethernet (PoE+) injector supplies power and data connectivity to a Gigabit PoE-compliant device using a standard Ethernet cable.

Compatible with IEEE 802.3bt and most previous 90W proprietary PoE (Ethernet) standards, including Cisco uPoE, Bosch, and AXIS. One product can cover multiple use requirements to improve standardization and deployment and dual power terminal block inputs provide redundancy for critical applications.

As many typical PoE-enabled switches max out at 30W a high 90W power budget is perfect for demanding Type 3 and Type 4 PoE applications like tilt and pan cameras and high power IEEE 802.11ax wireless access points.

Industrial features include -40 C to 75 C operating temperature, IP-30 rated housing, vibration, shock, and free-fall standard testing.

- Vibration: EN 60068-2-6
- Shock: EN 60068-2-27
- Free-fall: EN 60068-2-32

500,000+ hours MTBF rating using Telcordia/Bellcore at 50C for long-term reliability.

## Certifications, Reports and Compatibility



## Applications

### Features

- **WIDE STANDARD COMPATIBILITY:** High speed Industrial Gigabit PoE Injector compatible with IEEE 802.3bt (PoE++) and previous 90W proprietary POE standards including Cisco uPoE, Bosch & AXIS
- **90W POWER BUDGET:** Provides up to 90W of auto-negotiated power output for Type 3 and Type 4 PoE/Ultra/UPoE applications like tilt and pan cameras and high power IEEE 802.11ax wireless access points
- **TECH SPECS:** 1 Gbps; 52V-56VDC Power Input; IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt 90W max, uPoE, 10/100/1000 Mbps Auto Negotiation, DIN/Wall Mountable, Redundant Power Input
- **ROBUST DESIGN:** Industrial Power over Ethernet Injector w/MTBF of 500,000+hrs @ 50C; Vibration, shock & free fall rated; Rugged IP-30 aluminum housing; Hardened operating temp of -40C to 75C
- **THE IT PRO'S CHOICE:** Designed and built for IT Professionals, this TAA compliant PoE Injector is backed for 2-years, including free lifetime 24/5 multi-lingual technical assistance

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#### Hardware

|                    |   |
|--------------------|---|
| Warranty           | 2 Years   |
| Ports              | 2   |
| Industry Standards | IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3at PoE Plus, IEEE 802.3af Power over Ethernet, IEEE 802.3bt |
| Chipset ID         | Analog - LTC9101  |
|                    | Analog - LTC9103  |

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#### Performance

|                        |   |
|------------------------|---|
| Maximum Cable Length   | 328.0 ft [100 m]  |
| Surge Protection       | 2kV,  |
| Compatible Networks    | 10/100/1000 Mbps  |
| Auto MDIX              | Yes   |
| Full Duplex Support    | Yes   |
| Jumbo Frame Support    | 9K max.   |
| General Specifications | ESD Standard: IEC 61000-4-2: Contact: 6KV; Air: 8KV, EFT Standard: IEC 61000-4-4: Power: 2KV; Signal: 2KV, Surge Standard: IEC 61000-4-5: Power: 2KV; Signal: 2KV, Vibration Standard: EN 60068-2-6, Shock Standard: EN 60068-2-27, |

Free-Fall Standard: EN 60068-2-32, Housing Standard: IP-30,  
 Safety Standard: EN60950-1

MTBF 540,891 hours

Supported Protocols CSMA/CD, IEEE 802.3at, IEEE 802.3af, IEEE 802.3bt,

#### Connector(s)

Connector Type(s) 1 - Ethernet Gigabit

1 - RJ-45 (PoE+)

1 - Terminal Block (4 Wire)

#### Special Notes / Requirements

Patents and Licenses United States Patent No. 5,406,260 (expired) , United States Patent No. 6,650,622, United States Patent No. 7,457,250, United States Patent No. 8,155,012, United States Patent No. 8,902,760, United States Patent No. 8,942,107, United States Patent No. 9,019,838, United States Patent No. 9,049,019, United States Patent Application No. 14/695,456, United States Patent Application No. 14/726,940,

#### Indicators

LED Indicators 2 - Power

1 - PoE

#### Power

Plug Type N

#### Environmental

Operating Temperature -40C to 75C

Storage Temperature -40C to 85C

Humidity 5 to 95% (non-condensing)

#### Physical Characteristics

Color Black

Material Aluminum

Cable Length 328.0 ft [100 m]

Product Length 4.1 in [10.4 cm]

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|                   |                  |
|-------------------|------------------|
| Product Width     | 3.2 in [8.2 cm]  |
| Product Height    | 1.3 in [3.2 cm]  |
| Weight of Product | 5.2 oz [148.0 g] |

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**Packaging Information**

|                           |                   |
|---------------------------|-------------------|
| Package Quantity          | 1                 |
| Package Length            | 8.4 in [21.4 cm]  |
| Package Width             | 6.7 in [16.9 cm]  |
| Package Height            | 2.6 in [6.7 cm]   |
| Shipping (Package) Weight | 13.3 oz [376.0 g] |

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**What's in the Box**

|                     |                                   |
|---------------------|-----------------------------------|
| Included in Package | 1 - Industrial-Grade PoE Injector |
|                     | 1 - Terminal Block                |
|                     | 1 - Mounting Hardware Kit         |
|                     | 1 - Quick-Start Guide             |

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**Warranty Information**

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

