

IDI RUGGED!+ LIGHT INDUSTRIAL PoE POWER SUPPLY INJECTOR



PRODUCT OVERVIEW

The Terra Ferma light Industrial PoE Injector features a 10/100/1000TX Ethernet port supporting IEEE 802.3 af/at/bt high power PoE supplying up to 90 watts. Designed for industrial applications requiring versatile distance extension and high bandwidth capabilities.

POE INJECTOR:

- 01 TAA COMPLIANT
- 02 1 - PORT 10/100/1000TX RJ45 WITH IEEE 802.3 AF/AT/BT HIGH POWER POE
- 03 1 - PORT 10/100/1000TX RJ45
- 04 STANDARD OPERATING TEMPERATURE RANGE: -40°C TO 70°C
- 05 DIN-RAIL OR WALL MOUNTABLE
- 06 IP30 RUGGED METAL CASE DESIGN

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The small form factor is ideal for saving space in applications such as factory automation, security, power/utility, long haul connectivity and any other extreme ambient weather environments. The unit has 48~56VDC redundant power inputs with reverse polarity and overload current protection. This product series supports DIN-rail as well as wall mountable orientations and extended operating temperature range.

TECHNOLOGY STANDARDS

- IEEE 802.3 10BASE-T ETHERNET
- IEEE 802.3U 100BASE-TX FAST ETHERNET
- IEEE 802.3AB 1000BASE-T GIGABIT ETHERNET
- IEEE 802.3AT 15-WATT POWER OVER ETHERNET
- IEEE 802.3AF 30-WATT POWER OVER ETHERNET
- IEEE 802.3BT 60/90-WATT POWER OVER ETHERNET

EXTERNAL AC POWER SUPPLY:

- ENCLOSED AC POWER SUPPLY, 90 TO 260 VAC INPUT
- DC OUTPUT 55V (2.4A) – 130 WATT
- OPERATING TEMPERATURE -55°C TO 70°C
- IEC 62368 SAFETY CERTIFICATION
- ACTIVE POWER FACTOR CORRECTION
- OVER VOLTAGE AND OVERLOAD PROTECTION
- CLASS I POWER SUPPLY
- DOE LEVEL VI EFFICIENCY



External AC Power Supply

MECHANICAL CHARACTERISTICS

- HOUSING METAL, IP30 PROTECTION
- MOUNTING DIN-RAIL MOUNTING, WALL MOUNTING

POWER REQUIREMENT

INPUT VOLTAGE 48~56VDC, REDUNDANT INPUTS

* For IEEE 802.3bt applications, power supply not less than 53V is recommended. Measured at device input.

REGULATORY APPROVALS

EMI FCC PART 15 SUBPART B CLASS A
ROHS COMPLIANT CERTIFICATIONS FCC
CE MARK

WARRANTY

3 YEARS

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TECHNICAL SPECIFICATIONS

Dimensions	26 x 95 x 75 mm (W x H x D)
Weight	0.6 lbs
Operating Temperature	-40°C (-40°F) to +70°C (158°F)
Storage Temperature	-40°C (-40°F) to +85°C (185°F)
Humidity	0 to 95% non-condensing
Waterproofing	Not waterproof
AC Input	90-260 VAC, 47-63 Hz
Alternative DC Input	48-58 VDC – 18 to 22AWG DC Cable
AC Input connector	IEC-320-C8
DC Output current	1.8A
Efficiency	Better than 90%
Over Current Protection	Hiccup current limiting, trip point set between 110% to 120% of full load current
Hold up time	At least 20 milliseconds
Power factor	Better than 0.9
Reverse Polarity Protection	Yes
LED Indicators	Power and PoE
Poe Pin Assignment	V+ for pin 3, 4, 5, 6 V- for pin 1, 2, 7, 8
PoE Power Budget	90 Watts
Transfer Rate	14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Ethernet Port
EMI	FCC Part 15 Subpart B Class A
MTBF	100k hrs. MIL-HDBK-217F 25°C

TERRA FERMA, LEADING INDUSTRIAL IOT

For more than 10 years, Terra Ferma's engineers have been involved in increasingly sophisticated communications projects. As these projects branched into new sectors, the need for new, more capable products were realized. Terra Ferma was developed to fill this growing need and has brought power products for communication systems to a new level and a broader market.

GET A FREE QUOTE

For additional information and a free quote please contact your
TERRA FERMA Sales Representative.

Or reach us online at TerraFerma.com