User Manual

Industrial Gigabit Injector with 1 x 10/100/1000M TX 30W PSE + 1 x 10/100/1000M TX, 48-56 VDC input

FCC MARKING

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE MARKING

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55032/24 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

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NOTE

Always make sure the total length of the TX cable DOES NOT exceed 100 meters. Total length is defined as length A + length B.



Length A + Length B < 100 meters

PoE signal attenuates every meter, the built-in transformer allows the attenuation to reach 100 meters to follow IEEE802.3af/at standards. The higher quality PD you connect to, the more reliable the network will be. When connecting to a poor-quality PD, it cannot generate a strong enough signal for the remote switch. Always make sure you have a high-quality PD to perform your desired network.

Introduction

This rugged designed industrial PoE injector is equipped with a 30W/60W/95W PSE port. This PSE port can be powered by 48-56 VDC input voltage. With its multipurpose design, it can also be Din-Rail or wall-mounted. It is an ideal unit for Mobile Base Station (BTS), IP surveillance, traffic monitoring and security applications in critical environments. It can tolerate -40°C to 75°C in harsh environments to perform a reliable network. This product has been rigorously tested in harsh environments for your security, transportation, and telco applications.

Installation package

This unit can be din-rail mounted or wall-mounted. Din-rail brackets and wall-mounted brackets are included.



Power connection

This unit provides a 4 pin terminal block. It can be operated using 48-56VDC power source. Always make sure your input voltage is within this supported voltage range.

To connect power: This unit supports two power inputs. Follow the printed polarity for +V1-, +V2- and ground. Connect positive wires to V+, connect negative wires to V-, and connect a neutral wire to the ground screw.

+V1- is for power input one connection. +V2- is for power input two connection.

Power connecting procedure:



STEP 1 – Take out 4 pin terminal block located in the included mounting kit package.
STEP 2 – Connect power wires to +V1- or +V2- with corresponding polarity. Connect the grounding wire to the ground screw.
STEP 3 – Plug into terminal block socket shown above. Polarity needs to match V+ and V-.

<u>WARNING</u> -- Always SHUT OFF power source to connect power wire. <u>WARNING</u> -- Any exceeded input voltage will not make this unit function and may damage this unit.

LED indicator



Specifications

IEEE 802.3 10Base-T EthernetIEEE 802.3u 100Base-T X Fast EthernetIEEE 802.3u 100Base-T Gigabit EthernetIEEE 802.3ab 1000Base-T Gigabit EthernetIEEE 802.3at for PoEIEEE 802.3at for PoE+Network Connector1xRJ-45 10/100/1000BaseT(X) DataNetwork CableUTP/STP above Cat.5e CableELATTIA-568 10-ohm (100m)ProtocolCSMA/CDPW1 (Green): ON - Power is detectedPW2 (Green): ON - Power is detectedWdoe A (Green): For End-Span PoE power 1,2,3,6Mode B (Green): For End-Span PoE power 1,2,3,6Mode B (Green): ReservedPower SupplyRedundant Dual DC 48V-56V power inputPower SupplyRedundant Dual DC 48V-56V power inputPower Consumption1 W@48 VDC full load, Without PoEPower ConsumptionProvide 4 pin terminal blockWire range: 0.34mm^2 to 2.5mm^2Solid wire (AWG): 12-24/14-22Solid wire (AWG): 12-24/14-22Torque:51b-In/0.5Nm/0.5NmWire Strip length: 7-8mmOperating Temperature-40°C to 75°COperating Humidity5% to 95% (Non-condensing)Storage Temperature-40°C to 85°CMTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)I035 x 32 x 81.5 mm (LxWxXD)InstallationDIN Kail and Wall Mount options included		
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Stranded wire (AWG): 12-24/14-22Torque:5lb-In/0.5Nm/0.56NmWire Strip length: 7-8mmOperating Temperature-40°C to 75°COperating Humidity5% to 95% (Non-condensing)Storage Temperature-40°C to 85°CMTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)		Solid wire (AWG):12-24/14-22
Wire Strip length: 7-8mmOperating Temperature-40°C to 75°COperating Humidity5% to 95% (Non-condensing)Storage Temperature-40°C to 85°CMTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)		Stranded wire (AWG): 12-24/14-22
Operating Temperature-40°C to 75°COperating Humidity5% to 95% (Non-condensing)Storage Temperature-40°C to 85°CMTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)		Torque:5lb-In/0.5Nm/0.56Nm
Operating Humidity5% to 95% (Non-condensing)Storage Temperature-40°C to 85°CMTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)		Wire Strip length: 7-8mm
Storage Temperature-40°C to 85°CMTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)	Operating Temperature	-40°C to 75°C
MTBF (mean time between failure)>500,000 hrs (MIL-HDBK-217F) at 25°CHousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)	Operating Humidity	5% to 95% (Non-condensing)
HousingRugged Aluminum, IP30 ProtectionCase Dimension (LxWxD)103.5 x 32 x 81.5 mm (LxWxD)	Storage Temperature	-40°C to 85°C
Case Dimension (LxWxD) 103.5 x 32 x 81.5 mm (LxWxD)	MTBF (mean time between failure)	>500,000 hrs (MIL-HDBK-217F) at 25°C
	Housing	Rugged Aluminum, IP30 Protection
Installation DIN Rail and Wall Mount options included	Case Dimension (LxWxD)	103.5 x 32 x 81.5 mm (LxWxD)
	Installation	DIN Rail and Wall Mount options included

Certifications	
Safety	UL 60950-1
Safety	LVD EN62368-1
EMC/EMS	CE, FCC, EN55032/24, VCCI
EMI	FCC Part 15 Subpart B Class A
Vibration	EN 60068-2-6
Shock	EN 60068-2-27
Free Fall	EN 60068-2-32

Housing Dimension (mm)





NOTE:

Housing dimension is for purpose of showing product Length, Width, Height, din-rail, and terminal block's position and dimension. Please reference the LED Indicator Page for correct port order.