

iPJ2G

Industrial Gigabit PoE Injector



Product Overview

The iPJ2G PoE Injector is an advanced IEEE802.3 af /802.3at compliant device with intelligent detection that provides 10/100/1000Base-T(X) PoE output. The device does not turn on power until it detects a valid PoE signature from the PoE devices attached downstream on the Ethernet cable. This protection against damage to non-PoE compliant equipment which may be connected to the Ethernet cable. Because of this intelligent detection, only an IEEE 802.3at/802.3af compliant device can be powered with the iPJ2G PoE Injector. iPJ2G can accept 12~57VDC power input and convert to 50VDC to meet the power input requirement of PoE standard. The iPJ2G PoE Injector can function with any PoE P.D. equipment which is fully compliant with the IEEE802.3 af /802.3at standards.

Note: The equipment being powered must be fully compliant with IEEE802.3 af /802.3at for its power supply to be able to sense the PoE devices signature and apply power. The power is to be connected on Ethernet pins 1/2(V+) and 3/6(V-).

Features and Benefits

Table 1. Features

FEATURE	
SUPPORTS	<ul style="list-style-type: none">•10/100/1000Base-T(X) ports for power and data output•Auto protection for over voltage power input and over current output•Power output up to 60W at 50 VDC
FULLY COMPLIANT WITH IEEE802.3 AF /802.3AT	
AUTO PROTECTION FOR OVER VOLTAGE POWER INPUT AND OVER CURRENT OUTPUT	
IP-40 GALVANIZED STEEL HOUSING	
OPERATING TEMPERATURE -40°C TO +85°C	
DIN RAIL AND WALL MOUNT	

PRODUCT SPECIFICATIONS

Table 2. Technical Specification

DESCRIPTION	SPECIFICATION
2 X 10/100/1000BASE-T(X) RJ45 POE	2
OPERATING VOLTAGE	
INPUT VOLTAGE	12 ~ 57 VDC (Opr) on a 4-pin terminal block
OUTPUT VOLTAGE	50V / 600mA, 60 W* max *PoE will only supply 30W if the power supply is less than 24V. To get full 60W, a 24V or higher power should be used
LED INDICATORS	
POWER INDICATORS	PWR / Ready: 1 x LED Green On: Power is on and functioning normally
POE INDICATOR	LED Blue On: PoE Device Link Blue Blinking: Detecting PoE Device Blue Off: None PoE Device Detected
PROTECTION	
SHORT CIRCUIT PROTECTION	Present
OVERLOAD PROTECTION	Present
HIGH VOLTAGE PROTECTION	Present
PHYSICAL CHARACTERISTICS	
ENCLOSURE	IP-40 Galvanized Steel
DIMENSIONS (W X D X H)	1.71 x 3.19 x 4.21 inches Panel mount 1.75 x 2.92 x 4.57 inches DIN Rail mount
WEIGHT (G)	~400 g

Features and Benefits

Table 3. Compliance Specification

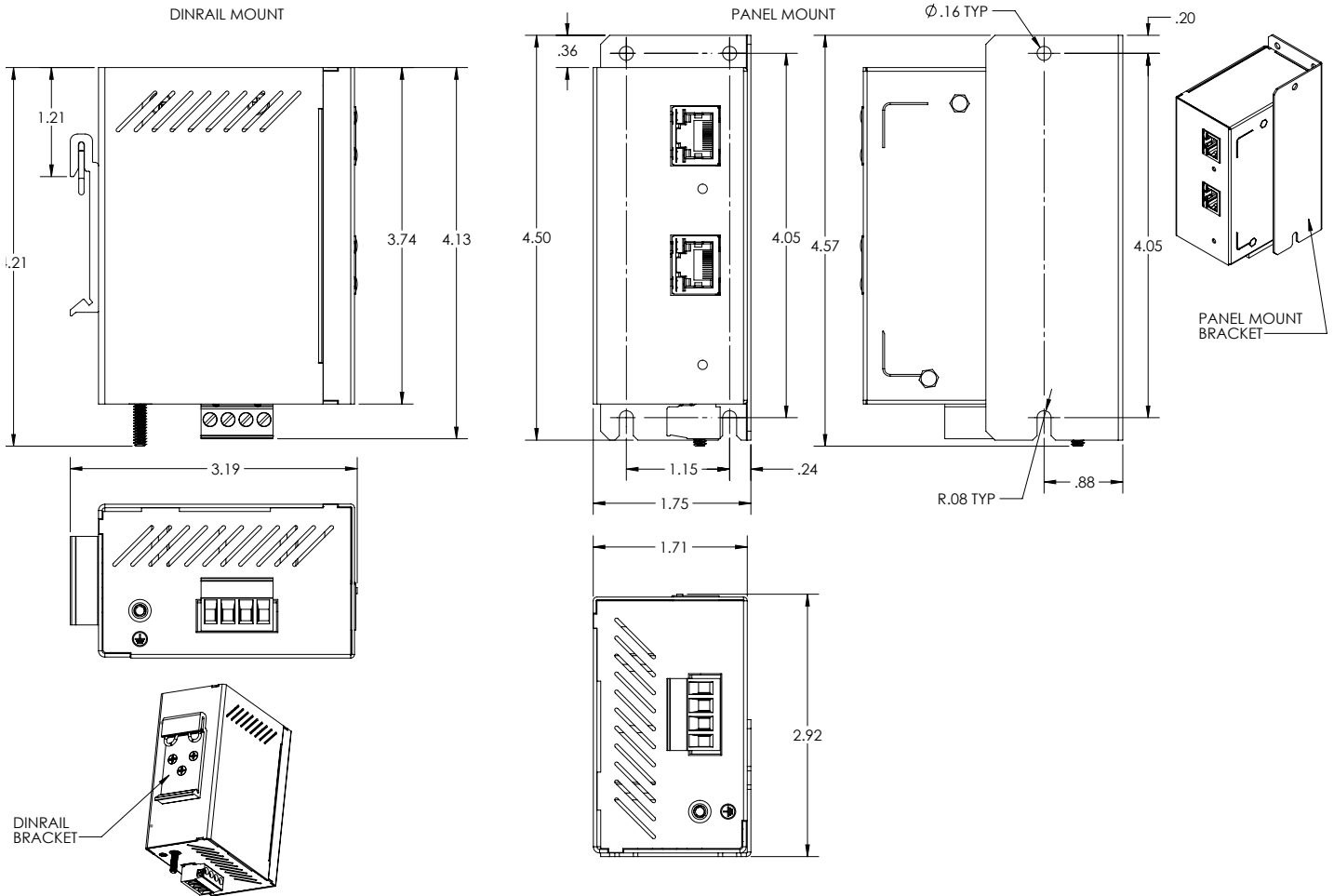
TYPE	STANDARDS
ELECTROMAGNETIC EMISSIONS	FCC Part 15, Class A, CISPR Class A (EN55022)
ELECTROMAGNETIC IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
SAFETY STANDARDS	EN60950-1
OPERATING ENVIRONMENT	-40°C to +85°C (-40° to 185°F) (no fans) EN 60068-2-21
STORAGE ENVIRONMENT	-40°C to +85°C (-40° to 185°F) EN 60068-2-14
OPERATING HUMIDITY	5% to 95% Non-condensing EN 60068-2-30
SHOCK	IEC60068-2-27
FREE FALL	IEC60068-2-32
VIBRATION	IEC60068-2-32
WARRANTY	5 years, (extendable option with additional terms)

Table 4. Standards and Management

DESCRIPTION	SPECIFICATION
IEEE STANDARDS	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) and 100Base-FX IEEE802.3 af /802.3at PoE

Dimensions

All dimensions are shown in inches [millimeters].



Ordering Information

BASE	POWER SUPPLY 1	MOUNT	ETHERNET PORT 1-2	MOD	DESCRIPTION
iPJ2G	MV	D	2PGRJ45		
iPJ2G					Core assembly and packaging
	MV				Input 12-57VDC
		D			DIN Rail Mounting
		P			Panel Mounting
		N			No Mounting Hardware
			2PGRJ45		2 X 10/100/1000Base-T(X) RJ45 PoE
				C1	Conformal Coating

iPJ2G Sample Order Code

iPJ2G-MV-D-2PGRJ4

Description: Industrial PoE Plus High Power Injector, (Power Supply) Input 12-57VDC, (Mount) DIN Rail Mounting, (Ethernet Port 1-2) 2 X 10/100/1000Base-T(X) RJ45 PoE.

The same unit, may be ordered with conformal coating by appending '-C1' to the order code, for example: iPJ2G-MV-D-2PGRJ4-C1

Description: Industrial PoE Plus High Power Injector, (Power Supply) Input 12-57VDC, (Mount) DIN Rail Mounting, (Ethernet Port 1-2) 2 X 10/100/1000Base-T(X) RJ45 PoE. This system will be conformal coated.



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