

INJ-IG01-PH

Gigabit Ethernet PoE+ Injector IEEE802.3at/af, 15.4/30/36/60W



INJ-IG01-PH is an industrial grade, single port, gigabit Ethernet PoE (Power over Ethernet) injector. PoE technology describes a system to pass electrical power safely, along with data, on Ethernet cabling. The original IEEE 802.3af-2003 PoE standard provides up to 15.4 W of DC power to each device. The updated IEEE 802.3at-2009 PoE standard also known as PoE+ or PoE plus, provides up to 30 W of power. Additionally, INJ-IG01-PH can provide up to 36/60W through the non-standard use of all 4 pairs of category 5 cable. Housed in a rugged DIN rail or wall mountable enclosure, this product is designed for harsh environments, such as industrial networking, security, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. Standard operating temperature range models (-10 to 60°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

Features

- Provides 1 port IEEE802.3at/af PoE Injector
- Power output 15.4W, 30W, 36W, 60W select by DIP SW
- PoE Mode A/B Select by DIP SW
- 4 Pairs PD handshake mode select by DIP SW (Such as AXIS® IP cam)
- Wide operating temperature -40 ~ 75°C (INJ-IG01-PHE)
- IP30 rugged metal housing

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3at, IEEE802.3af	Power Consumption	TBD
PoE Standard	IEEE802.3at, IEEE802.3af	Removable Terminal Block	Provide 2 Pin for power input connectorn
PoE RJ-45 Pin Assignment	RJ-45 support IEEE 802.3at/af Middle-Span Alternative B mode or End-Span Alternative A mode, set by DIP SW End-Span, Alternative A mode Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8) Middle-Span, Alternative B mode Positive (V+): RJ-45 pin 4,5 Negative (V-): RJ-45 pin 7,8 Data (1, 2, 3, 6, 4, 5, 7, 8)	Operating Temperature	-10 ~ 60°C (INJ-IG01-PH) -40 ~ 75°C (INJ-IG01-PHE)
Network Connector	1 RJ-45 for 10/100/1000Base-T Data, and 1 RJ-45 for 10/100/1000Base-T Data with PoE Output power	Operating Humidity	5% to 95% (Non-condensing)
Network Cable	UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m)	Storage Temperature	-40 ~ 85°C
LED	Per unit: Power (Green) Alt A/PoE ,Alt B/PoE (Green) ON when a PD device is connected to the GbE+PoE RJ-45 connector and the Injector is feeding power in Alt A or B mode. Blinking One of the Injector faults (overload, short circuit or over-temperature) occurs.	Housing	Rugged Metal, IP30 Protection
DIP SW	SW1 ON: Alternative B mode PoE Power Pin 4, 5, 7, 8 (When DIP SW 3 Off) OFF: Alternative A mode PoE Power Pin 1, 2, 3, 6 (When DIP SW 3 Off) SW2 ON: Hi Power 36W 36W PoE output OFF: Standard PoE 802.3af (15.4W), 802.3at (30W) SW3 ON: 4 Pair PoE Pin Ultra-High Power 60W PoE Output OFF: 2 Pair PoE Pin depend on DIP SW 1,2 SW4 60W PD handshake mode OFF General PD at ether 2 or 4 pairs mode ON Compatible with some particular PD devices at high power mode (4 Pair mode),such as AXIS® Q60	Dimensions	70 x 30 x 103 mm (D x W x H)
Reserve Polarity Protection	Present	Weight	TBD
Overload Current Protection	Present	Installation Mounting	DIN Rail mounting, and Wall Mounting (Optional)
Power Supply	(44~57VDC) Input power (Removable Terminal Block)	EMC	CE
PoE Power Output	Maximum Ultra High Power 60W, IEEE802.3at 30W, IEEE802.3at High power 36W, IEEE802.3af 15.4W	EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A CE EN55022 Class A Railway Traffic: EN50121-4 (Pending) Immunity for Heavy Industrial Environment: EN61000-6-2 Emission for Heavy Industrial Environment: EN61000-6-4
		EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
		Shock	IEC 60068-2-27
		Freefall	IEC 60068-2-32
		Vibration	IEC 60068-2-6
		MTBF	TBD
		Warranty	5 years

Application : INJ-IG01-PH Gigabit Ethernet PoE Injector



Ordering Information

Model Name	Description
INJ-IG01-PH	Industrial 10/100/1000Base T(X) with IEEE802.3at/af PoE Injector ,15.4W/30W/36W/60W (-10~60°C)
INJ-IG01-PHE	Industrial 10/100/1000Base T(X) with IEEE802.3at/af PoE Injector ,15.4W/30W/36W/60W (-40~75°C)

Temperature

INJ-IG01 – PH

Example: INJ-IG01 – PHE