

INJ-IG03-PH

Industrial Gigabit IEEE802.3af/at PoE to Passive PoE Converter

NEW



- Converts 48V IEEE802.3af/at PoE Input to 12/19/24V Passive PoE Output
- Compliant with 10/100/1000Base-T(X)
- Supports PoE input IEEE802.3af/at A mode and B mode
- Selectable passive PoE output voltage
- Selectable passive PoE output mode, A mode or B mode

INJ-IG03-PH is an Industrial Grade, Gigabit Ethernet, passive PoE injector, designed to take IEEE802.3af/at standard PoE as input and deliver Passive PoE with switchable DC output voltages of 12V, 19V and 24V. This device is very useful when installing any non-standard PoE power devices, such as entry level PoE Camera or Wireless AP, that need the direct power over Ethernet without any protocol negotiation. When connected with IEEE802.af/at PSE switches, the INJ-IG03-PH appears as standard PD equipment powered by the PoE switch, without any additional electrical power input required. The non-standard power output is switchable to either Alternative A mode (power on pins 1,2,3,6) or Alternative B mode (power on pins 4,5,7,8). Simple settings make it a plug and play device, requiring no tools or software configuration, and make it easy to use, with flexible installation and high reliability.

Features

- Converts 48V IEEE802.3af/at PoE Input to 12/19/24V Passive PoE Output (Figure 1)
- Supports input PoE IEEE802.3af/at A mode (1,2,3,6) or B mode (4,5,7,8)
- Selectable passive PoE output voltage, 12/19/24VDC select by slide SW
- Selectable passive PoE output mode, A mode (1,2,3,6,) or B mode (4,5,7,8) select by slide SW
- Compliant with 10/100/1000Base-T(X)
- CE, FCC, Railway traffic EN50121-4 certified
- Heavy industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified
- Wide operating temperature -40 ~ 75°C (INJ-IG03-PHE)
- IP30 rugged metal housing and fanless

Specifications

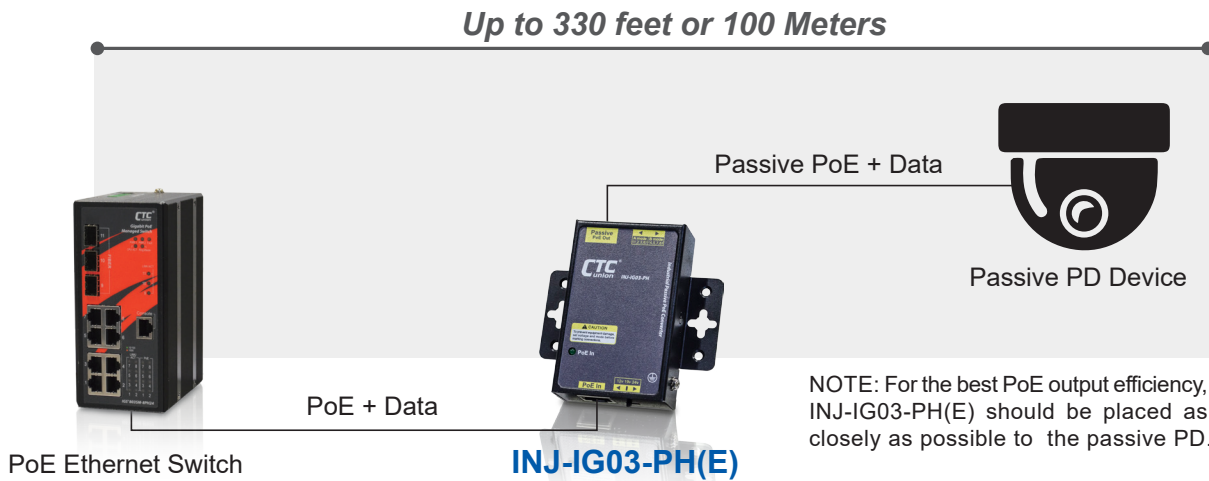
IEEE Standard	IEEE 802.3 10Base-T Ethernet			
	IEEE 802.3u 100Base-TX Fast Ethernet			
	IEEE 802.3ab 1000Base-T Gigabit Ethernet			
	IEEE802.3af PoE (Power over Ethernet)			
	IEEE802.3at PoE+ (Power over Ethernet enhancements)			
PoE In	PoE Standard	PoE Standard IEEE 802.3af, IEEE802.3at		
	RJ45 Pin Assignments	Support both PoE A mode or B mode (don't need select) A mode: Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. B mode: Positive (V+): RJ-45 pin 4,5. Negative (V-): RJ-45 pin 7,8 Support 10/100/1000Base-T(X) Data (1, 2, 3, 6, 4, 5, 7, 8)		
		Passive PoE out	A mode or B mode select by slide switch A mode : Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. B mode : Positive (V+): RJ-45 pin 4,5. Negative (V-): RJ-45 pin 7,8	
			Output voltage	12, 19, 24VDC select by slide switch
			Network Cable	UTP/STP above Cat. 5e cable , upto 100meter (see Figure 1)
EIA/TIA-568 100-ohm (100m)				
LED	PoE in (Green)			
Power Supply	Powered from PoE in, IEEE802.3af/at 44~57VDC, 30W Max			
Passive PoE out	12VDC, 0.8A (max)			
	19VDC, 0.8A (max)			
	24VDC, 0.8A (max)			
Operating Temperature	-10 ~ 60°C (INJ-IG03-PH)			
	-40 ~ 75°C (INJ-IG03-PHE)			
Operating Humidity	5% to 95% (Non-condensing)			

Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection and fanless
Dimensions	22 x 84.2 x 80.7 mm (D x W x H)
Weight	85g
Installation Mounting	Wall Mounting
MTBF	2,531,635 Hours (MIL-HDBK-217)

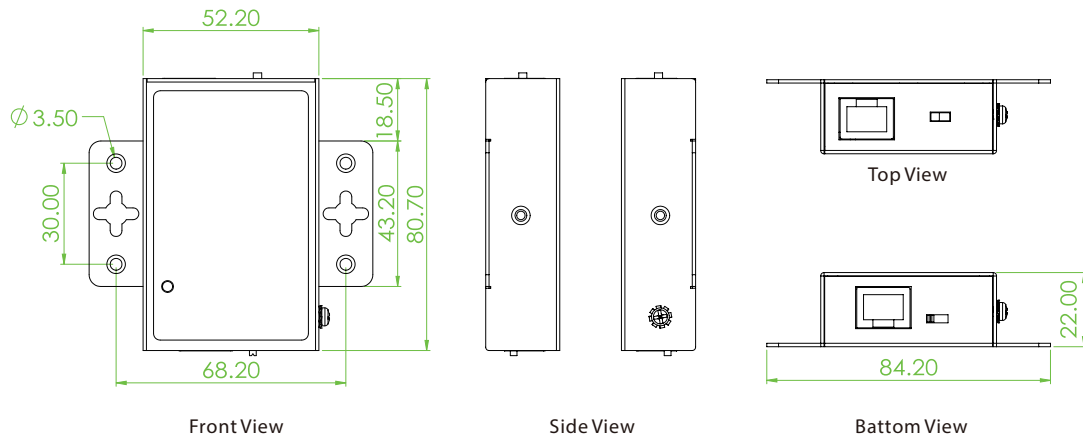
Certification	
EMC	CE (EN55032, EN55035)
EMI	FCC Part 15 Subpart B Class A, CE
Railway Traffic	EN50121-4
Immunity for Heavy Industrial environment	EN 61000-6-2
Emission for Heavy industrial environment	EN 61000-6-4
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B
	EN61000-4-3 (RS) Level 3, Criteria A
	EN61000-4-4 (EFT) Level 3, Criteria A
	EN 61000-4-5 (Surge) Level 3, Criteria B
	EN 61000-4-6 (CS) Level 3, Criteria A
Shock	EN61000-4-8 (PFMF) Field strength 300A/m Criteria A
	IEC 60068-2-27
	IEC 60068-2-31
Freefall	IEC 60068-2-6
Vibration	

Application

Figure : INJ-IG03-PH application topology



Dimensions



Ordering Information

Model Name	PoE In		Passive PoE Out			Certification			Operating Temperature
	10/100/1000 Base-T	IEEE802.3af/at	10/100/1000 Base-T(X)	Output Voltage selectable 12/19/24VDC	PoEpin selectable A mode/B mode	EN61000-6-2 EN61000-6-4	EN50121-4	CE/FCC	
INJ-IG03-PH	1	1	1	V	V	V	V	V	-10~60°C
INJ-IG03-PHE	1	1	1	V	V	V	V	V	-40~75°C

Package List

- INJ-IG03-PH device