

-INJ-IG60-24

Industrial Gigabit IEEE802.3af/at PoE Injector (15.4/30/36/60/72W, 12/24/48VDC)



- 12/24/48VDC redundant dual input power with booster for PoE output
- Regulate PoE output voltage
- Power output 15.4W/30W/36W/60W72W select by DIP SW
- Compliant with 10/100/1000Base-T(X) & IEEE802.3af/at PoE
- Railway EN50121-4, Heavy industrial, EN61000-6-2, EN61000-6-4, CE, FC certified



INJ-IG60-24 is an industrial grade, single port, gigabit Ethernet PoE (Power over Ethernet) injector with power boost technology. PoE 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-IG60-24 can provide up to 36/60/72W 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 (See Figure 1). Standard operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

Features

- Provides 1 port IEEE 802.3at/af PoE Injector
- PoE Mode A/B Select by DIP SW
- 4 Pairs (60W/72W) PD handshake mode select by DIP SW (Such as AXIS® IP cam)
- Wide operating temperature -40 ~ 75°C (INJ-IG60-E24)
- IP30 rugged metal housing and fanless

Specifications

opoomout								
IEEE Standard	IEEE 802.3 10Base-T Ethernet	PoE Power	Maximum	Ultra High P	ower 60W,	IEEE 802.3at 3	30W, IEEE	
	IEEE 802.3u 100Base-TX Fast Ethernet	Power	_оог.зац птуп ромет зом, тесе вог.зат тэ.4м INJ-IG60-24 in 30W mode (2 Pair)					
	IEEE 802.3ab 1000Base-T Gigabit Ethernet	Consumption	Input Input Power Device Power PoF Boost					
	IEEE 802.3at Power over Ethernet+, PoE+		Voltage	Consumption	Consumption	Power Budge	Efficiency	
	IEEE 802.3af Power over Ethernet, PoE		12VDC	33.9W	1.1W	30W	91.46%	
PoE Standard	IEEE 802.3at, IEEE 802,3af		24VDC	33W	1.4W	30W	94.90%	
PoE Standard & RJ-45 Pin	RJ-45 support IEEE 802.3at/af Middle-Span Alternative B mode or End-Span Alternative A mode, set by DIP SW		48VDC 33.2W 1.9W 30W 95.80%					
Assignment	End-Span, Alternative A mode		Input	Input Power	Device Power	PoE	Boost	
	Positive (V+): RJ-45 pin 1, 2.		Voltage	Consumption	Consumption	Power Budge	Efficiency	
	Data (1, 2, 3, 6, 4, 5, 7, 8)		12VDC	67.1W	1.1W	60W	90.90%	
	Middle Creer Alterretive Dreede		24VDC	65.2W	1.4W	60W	94.10%	
	Positive (V+): RJ-45 pin 4.5		48VDC	64.7W	1.9W	60W	95.50%	
	Negative (V-): RJ-45 pin 7,8 Data (1, 2, 3, 6, 4, 5, 7, 8)	Alarm Relay Contact	Relay outpu	uts with curre	ent carrying	capacity of 1	A @24VDC	
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	Removable Terminal Block	Provides 2 redundant power, alarm relay contact, 6 Pin					
Network Cable	UTP/STP above Cat. 5e cable	Operating	-10 ~ 60°C (INJ-IG60-24)					
	EIA/TIA-568 100-ohm (100m)	Temperature	-40 ~ 75°C (INJ-IG60-E24)					
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber)	Operating Humidity	5% to 95% (Non-condensing)					
	4/2 Pairs (Green) ON: 4 Pairs PoE Power output for 60/72W PoE OFF: 2 Pairs PoE Power output	Storage Temperature	-40 ~ 85°C					
	S(A/1 - ON) = Alt P mode (4 E 7 R)	Housing	Rugged Metal, IP30 Protection and fanless					
DIP SW	OFF: Alt A mode (1,2,3,6)	Dimensions	106 x 31.6 x 142 mm (D x W x H)					
	SW2 ON: Hi Power PoE 36W(in 2 pair), or 72W (in 4 pair) OFF: Standard PoE 15.4W/30W (in 2 pair), or 60W (in 4 pair)	Weight	0.425kg					
	SW3 QN: 4 Pair PoE Pin Ultra-High Power 60W/72W PoE Output	Installation Mounting	DIN Rail m	ounting, or \	Nall Mount	ing (Optional)	
	OFF: 2 Pair POE PIN_ depand on DIP SW 1,2	MTBF	1,403,339 Hours (MIL-HDBK-217)					
	by pin 1,2,3,6,4,5,7,8 (Such as AXIS® Q60 series)	Warranty	5 years					
Povorco	OFF: General PD	Certification						
Polarity	Supported for power input	EMC	CE (EN55024	ł, EN55032)				
Overload		EMI	FCC Part 15 Subpart B Class A, CE					
Current Protection	Supported	Railway Traffic	EN50121-4					
Power Supply	Redundant Dual DC 12/24/48V (10~57VDC) Input power (Removable Terminal Block)	Immunity for Heavy Industrial environment	EN 61000-6-2					
	Built-in very high efficiency booster(91~96%) to rise up 52VDC for PoE output	Emission for Heavy industrial	EN 61000-6	EN 61000-6-4				
	Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter (Figure 2)	environment						



Industrial Gigabit PoE Injector

EMS	EN61000-4-2 (ESD) Level 3, Criteria B
(Electromagnetic Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A
Protection Level	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
	EN61000-4-8 (PFMF) Field strength 300A/m Criteria A

Safety	EN60950-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Application

Figure 1 : INJ-IG60-24 Giagabit Ethernet PoE Injector





Non-PoE Ethernet Switch/HUB

Figure 2 : Very high efficiency boost technology for PoE



- Regulated PoE output voltage (52VDC) to stabilize PoE device

PoE PD Device ex. AXIS® Q60 series in 4 pair/60W mode

- Guarantee delivery PoE power distance to 100 meter
- Wide range input power 12/24/48VDC (10~57VDC)
- Built-in very high efficiency (91~96%) to boost PoE output voltage

Dimensions





Gigabit Ethernet + PoE

15.4/30/36/60/72W

DIN-Rail Kit View Wall-Mount Kit View (Optional accessory)

Ordering Information

