

# IS-DG102P-1-FM Series

Rugged Industrial PoE Injector, 1000BASE-TX PoE to 1000BASE-TX



The IS-DG102P-1(FM) Series are rugged designed, high power, Gigabit Ethernet industrial PoE Injector which meet IEEE 802.3af/at standard with 15.4/30/36 Watt high power output and are especially good for your security system application. The special cold design technology will not only power up your PD device, but also reduce the excessive heat problem to a minimum. The IS-DG102P-1(FM) Series accept the input voltage from 12 to 48 VDC and have been rigorously tested for your Security, Transportation and all the other Industrial applications. (Force-mode is specially for those PD device which required force-mode output, it is especially suitable for long-range Radio product, such as IS-LR500 Series.)



## Key features

- ▶ 1 Giga TX and 1 Giga PoE port, (IEEE802.3af/at)
  - ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
  - ▶ PoE support up to 15.4/30/36 Watt
  - ▶ Rugged design, compact enclosure
  - ▶ Overload current protection
  - ▶ Reverse power protection
  - ▶ Provides increased noise immunity
  - ▶ -40°C to 75°C operating temperature
  - ▶ Support force-mode PoE output (Power transmit without detect) for unique power input devices.
- \*Be noticed about that the edge powered device(PD) must support force-mode input.

## Specification

### Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	1K
Packet Buffer	1 Mbits
Jumbo frame	9K
Backplane / Switching Fabric	2Gbps

### RJ45 Copper ports

Speed	10/100/1000 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex

### PoE Ports

Output Power	IEEE 802.3af/at, 15.4/30/36 Watt output
--------------	---

### Power

Power Input	Single Power Input Terminal Block or DC Jack Input
Input Voltage Range	24/48VDC Input
Reserve power protection	YES
Power Consumption	IS-DG102P-1(FM) , Max 1.5 Watt

### Indicators

Power status indication	Power Input status
PoE port indication	PoE Light(Bluse)

### Environmental and Compliances

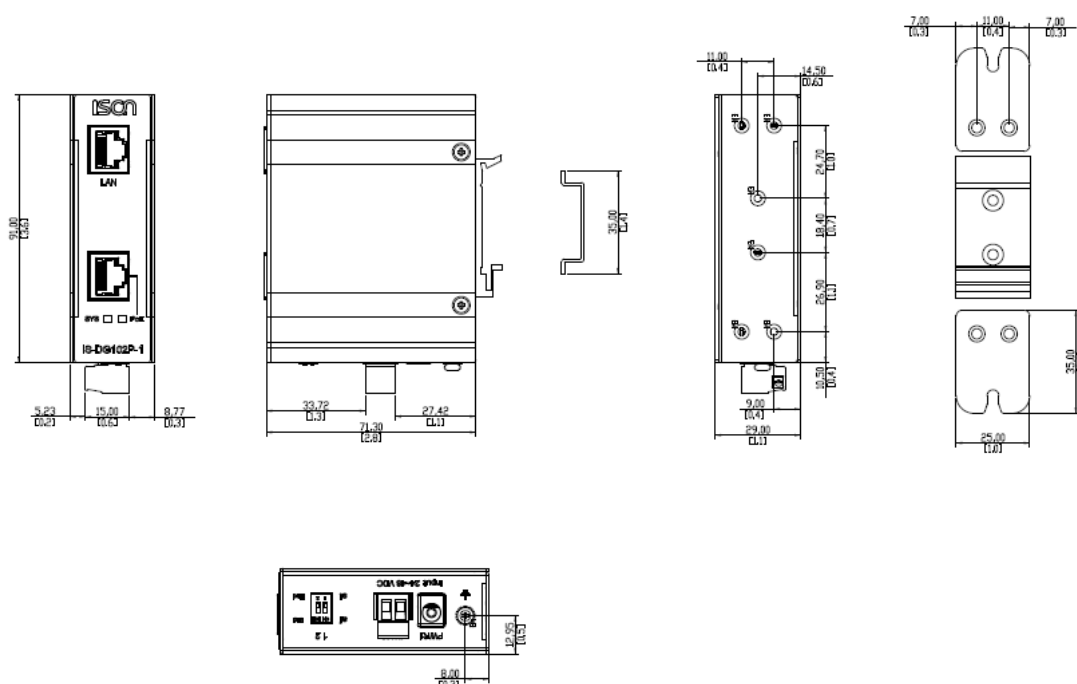
Operating Temperature	-40~75°C (Cold startup at -40°C)
-----------------------	----------------------------------

Storage Temperature	-40~85°C
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -27, -32
Certification Compliance	CE, FCC
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3)
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>25 years

## Mechanical

Protection	IP30
Dimension	91.0mm x 29.0mm x 71.3mm (LxWxD) (without DIN rail kit)
Weight	190 g
Installation	DIN-Rail mounting; Wall mounting

## Dimension Diagram



## Ordering Information

Available Models	Description	10/100/1000Mb TX	100/1000Mb PoE
IS-DG102P-1	Industrial 2 port Gigabit Layer 2 PoE injector, 15.4/30Watt PoE/PoE+	1	1
IS-DG102P-1(FM)	Industrial 2 port Gigabit Layer 2 PoE injector, 15.4/30Watt PoE/PoE+ (FM)	1	1

\*12/24 VDC power input or 60w Ultra/Super PoE output version are also available, please contact sales for the detail.

## Accessories

1. IS-RK2U 19" rack mount kit
2. IS-RK4U 19" rack mount kit

## Package Checklist

- IS-DG102P-1 PoE Injector
- Quick Installation Guide (Printed)
- Wall mount kit /Din-Rail kit