# IS-DG104P-3-PD Series

Rugged Industrial 4-port 4 in 1 PoE Injector, w/ PoE PD, PoE PSE, PoE Extender and PoE Splitter

The IS-DG104P-3-PD Series are rugged designed, high power, Gigabit Ethernet industrial PoE Injector which meets IEEE 802.3af/at standard with 15.4/30/36 watts output and up to 57 watts high power output(PSB port). The IS-DG104P-3-PD Series 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-DG104P-3-PD Series accept the input voltage from 12 to 58 VDC and have been rigorously tested for your Security, Transportation and all the other Industrial applications.
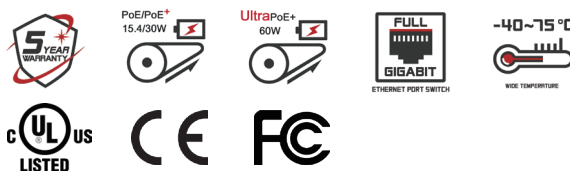
Key features

- ▶ Support Power-Chain feature for Daisy Chain PD/PSE data and power transmission
- ▶ Support Power-Star feature for PD/PSE data and power transmission
- ▶ Support PSE Plus+ Dual power Output function for different kind of devices connection
- ▶ IEEE 802.3af/at-compliant PoE PD equipment (up to Ultra PoE 60 Watts input)
- ▶ 1 Giga PoE PD port, and 3 Giga PoE PSE ports (Share Power Budget 60 Watts)
- ▶ Build-in PoE Splitter, 12 VDC, 1A output (*5V / 9V / 24V DC power output is also available)PoE support up to 57 Watts outputs
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ Rugged design, compact enclosure
- ▶ Overload current protection
- ▶ Reverse power protection
- ▶ Provides increased noise immunity
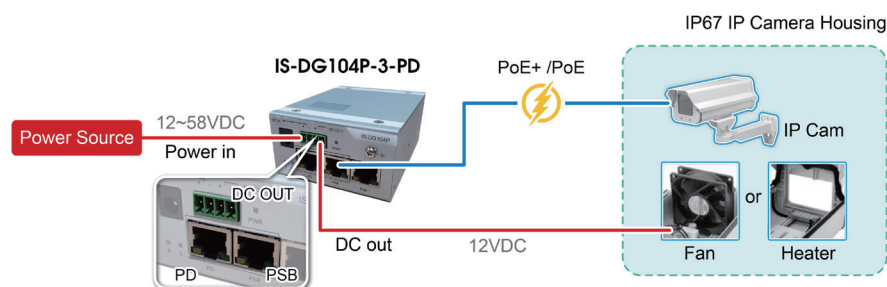- ▶ -40°C to 75°C operating temperature
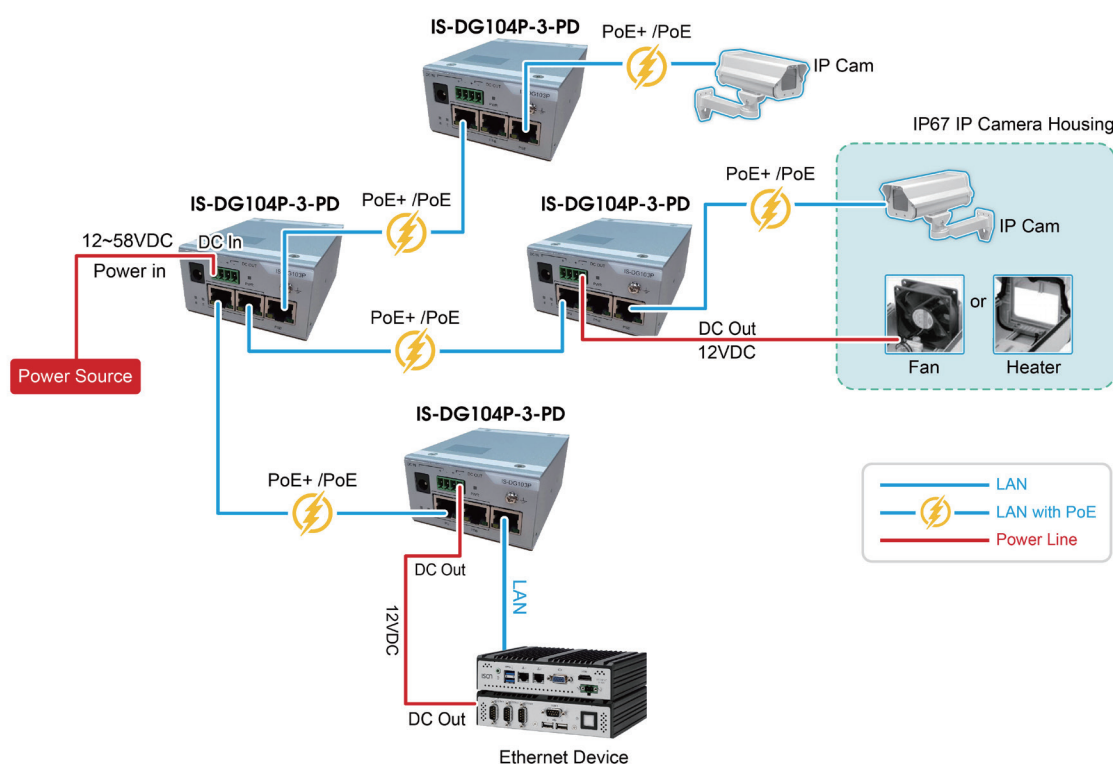
*Extend PoE Power up to 500 meter
*Share Power Budget 60W

PSE Plus+

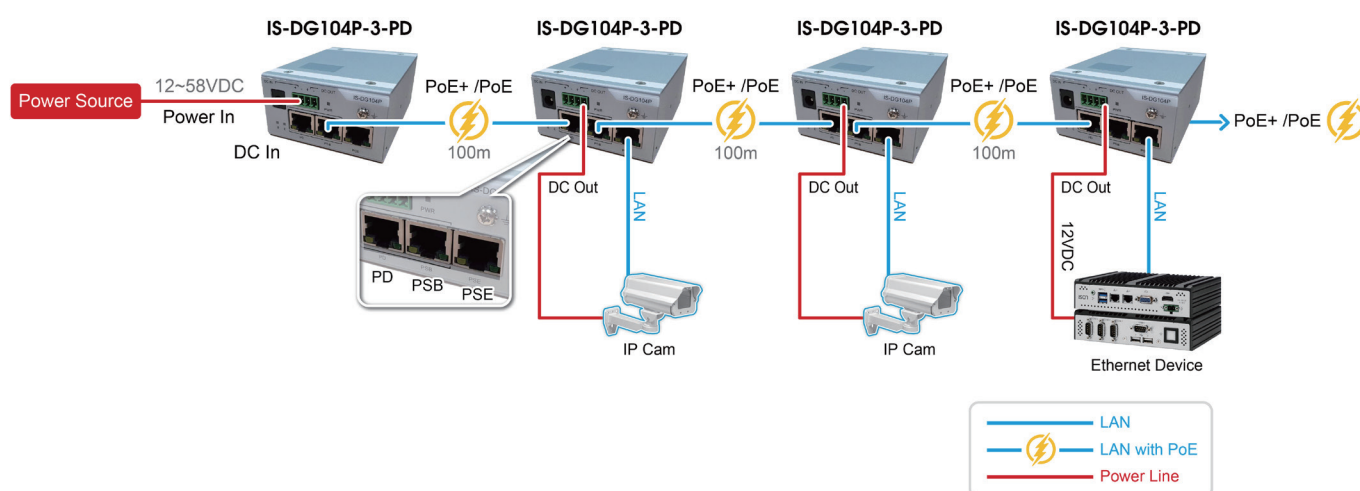*Extend PoE Power up to 500 meter
*Share Power Budget 60W

IP Cam + Heater / Fan

IP67 IP Camera Housing

IS-DG104P-3-PD

PoE+ /PoE

IP Cam

Power Source

12~58VDC
Power in

DC OUT

PD   PSB

DC out   12VDC

Fan   or   Heater

Power Chain

*Extend PoE Power up to 500 meter
*Share Power Budget 60W

IS-DG104P-3-PD   IS-DG104P-3-PD   IS-DG104P-3-PD   IS-DG104P-3-PD

Power Source

12~58VDC
Power In
DC In

PoE+ /PoE   PoE+ /PoE   PoE+ /PoE   PoE+ /PoE

100m   100m   100m

DC Out   DC Out   DC Out

PD PSB PSE

LAN   LAN   LAN

IP Cam   IP Cam   12VDC   Ethernet Device

LAN
LAN with PoE
Power Line

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	8Gbps

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, Ultra PoE,15.4/30/36/60 watts output

Power

Power Input	3 Ways Power Input, DC Input with Terminal Block or DC Jack, or PoE Input (up to Ultra PoE, 60W)
Input Voltage Range	12-58 VDC (supplied by power adapter) or 56 VDC (supplied by Ultra PoE)
Power Output (PoE Splitter)	12 VDC, 1A, Terminal Block, *5V / 9V / 24V DC power output is also available
Reserve power protection	YES
Power Consumption	3W, *3 watts power loss in 100m ethernet cable

Indicators

Power status indication	Power Input status
Ethernet port indication	Link & speed

Environmental and Compliances

Operating Temperature	-40~75ºC (Cold startup at -40ºC)
Storage Temperature	-40~85ºC
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -27, -32
Certification Compliance	CE, FCC, UL 60950-1, CSA C22.2 No. 60950-1, EN 60950-1
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3), IEC-61000-6-2, -4
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>220,000 hours

Mechanical

Protection	IP30
Dimension	40mm x 74mm x 97mm (LxWxD)
Weight	200g
Installation	DIN-Rail mounting; Wall mounting

Dimension Diagram
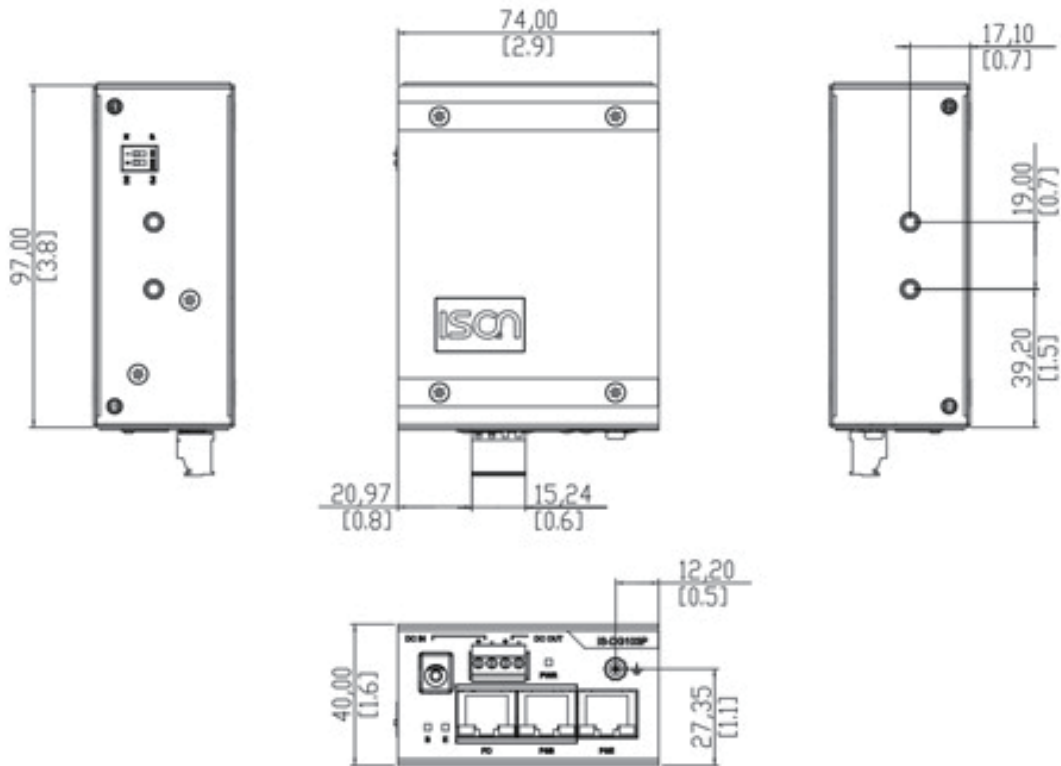
Ordering Information

Available Models	Description	10/100/1000Mb PoE PD	10/100/1000Mb PoE PSB	10/100/1000Mb PoE PSE
IS-DG104P-3-PD	Industrial 4 ports Gigabit Layer 2 PoE injector, 60Watt Ultra PoE PD, PoE PSE, PoE Extender, PoE Splitter	1	1	2

*5V / 9V / 24V DC power output is also available, please contact sales for the detail.

*PSB: Power Source Backbone, up to 57W outputs

Accessories

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

Package Checklist

- IS-DG104P-3-PD PoE Injector
- Quick Installation Guide (Printed)
- Wall mount kit