IPGS-0204DSFP

4 10/100/1000T + 2 Dual Speed SFP Industrial Switch w/4 PoE 802.3at/af Injectors

- *Complies with IEEE 802.3at/af PoE Standard*
- *Redundant Power Design*
- *Built-in boost voltage from 12VDC to 48VDC(12Vmodel)*
- *Wide operating temperature range from -40°C to 75°C*

OVERVIEW

The Lantech IPGS-0204DSFP is a 4 10/100/1000T + 2 Dual Speed SFP with 4 IEEE 802.3at/af High Power PoE Industrial Switch.

The IPGS-0204DSFP is a cost-effective solution, which meets the high reliability requirements demanded by industrial applications. Besides, the equipment meets IEEE 802.3at standard, the switch can provides 30 Watts output per PoE port for Powered Devices. The switch supports wide operating temperature, range from -40°C to 75°C.

The Lantech IPGS-0204DSFP is designed to meet the demands of Industrial environments, comes packaged in a robust IP30 housing and has been tested extensively to meet Industrial EMI and EMC standards.

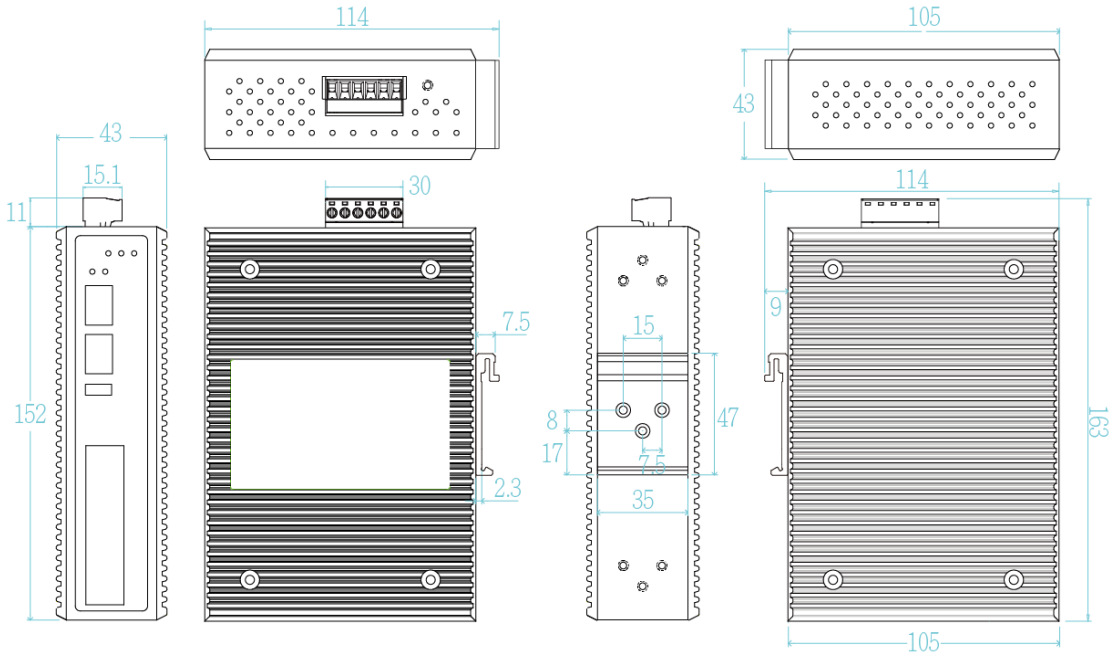
With voltage boost design, the IPGS-0204DSFP-12V can work from 12/24V input power source and boost the voltage to 48VDC to feed the POE power over Ethernet cable for any vehicles that usually has 12/24V power source. The slim compact design is able to fit in variety of cabinets and space.

FEATURES & BENEFITS

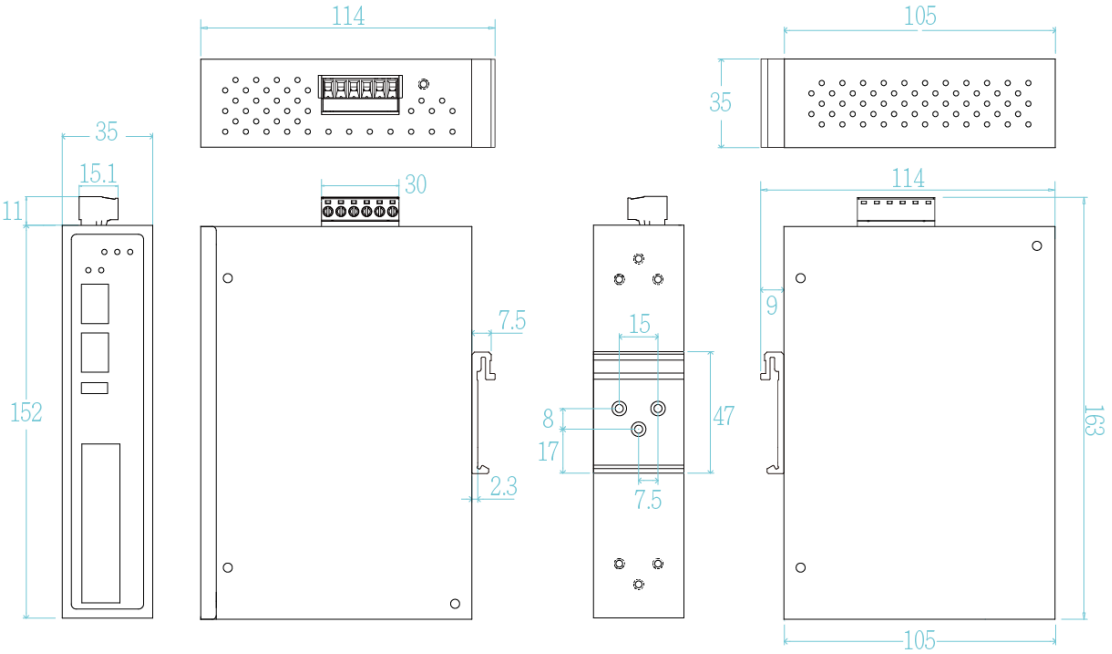
- **Built-in 12 to 48V DC-DC converter for PoE(12V model)**
- **Embedded 4-port PoE 802.3at inject function**
- **DIP switch to adjust SFP 100M or 1000M speed**
- **Back-plane (Switching Fabric): 12Gbps**
- **Supports wide operating temperature (-40°C~75°C)**
- **Auto- negotiation and Full duplex**
- **PoE 50W buget for 12V input, 90W for 24V input**
- **Redundant power with polarity reverse protection**
- **10KB Jumbo frame supported on all ports**
- **IP-30 protection with DIN Rail and Wall Mount** design**
- **Relay output for power fail and alarm**

DIMENSIONS (unit=mm)

12V model



48V model



SPECIFICATION

Hardware Specification			
Standards	IEEE802.3 10Base-T Ethernet		IEEE802.3z Gigabit fiber
	IEEE802.3u 100Base-TX		IEEE802.3x Flow Control and Back Pressure
	IEEE802.3ab 1000Base-T Ethernet		IEEE802.3at/af Power over Ethernet
		Switch	Back-plane (Switching Fabric): 12Gbps

Architecture	
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port
Packet Buffer	1Mbits
Mac Address	8K MAC address table
Jumbo frame	10KB on all ports
Connector	10/100/1000T: 4 x RJ-45 with Auto MDI/MDIX Mini-GBIC: 2 x 100/1000 Dual Speed SFP Sockets
DIP Switch	SFP Speed 1000M or 100M
Protocol	CSMA/CD
PoE pin assignment	RJ-45 port # 1~# 4 support IEEE 802.3at End-point, Alternative A mode. Per port provides 30W at 54V ability. Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
LED	**Per unit:** Power 1 (Green), Power 2 (Green), Fault (Red) **4 port 10/100/1000T:** Link/Activity (Green), Full duplex/Collision (Yellow) ; PoE (Yellow) **SFP port:** LNK/ACT(Green)
Power Supply	DC 9.5V~56V(12V model); Redundant power DC45 to 56V; redundant power (48V model)
PoE budget	90W@48/24VDC (50-57VDC input is recommended for 802.3at 30W applications) 50W@12VDC

	Higher PoE budget can be applied upon request. **
Power Consumption	6W (switch)
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	-40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Case Dimension	Metal case IP30, 43mm (W) x 152mm (H) x 105mm (D) (12V model) 35mm (W) x 152mm (H) x 105mm (D) (48V model)
Installation	DIN rail or Wall mounting** design
EMC/EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN55032 Class A, CE EN55024
Safety	EN 60950-1
MTBF	12V model: 1,291,990 hrs 48V model: 1,414,427 hrs
Warranty	5 years

**Optional

ORDERING INFORMATION

- **IPGS-0204DSFP-12V…….....P/N: 8350-966**
  4 10/100/1000T + 2 Dual Speed SFP Industrial Switch w/4 PoE 802.3at/af Injectors & 9.5~56VDC input
- **IPGS-0204DSFP-48V…….....P/N: 8350-967**
  4 10/100/1000T + 2 Dual Speed SFP Industrial Switch w/4 PoE 802.3at/af Injectors & 45~56VDC input

OPTIONAL ACCESSORIES

DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

- **8330-162-V1** MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver
- **8330-163-V1** MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver
- **8330-165-V1** MINI GBIC 1000LX (LC/SM/10KM) Transceiver
- **8340-0591-V1** MINI GBIC 1000LHX (LC/SM/40KM) Transceiver
- **8330-166-V1** MINI GBIC 1000XD (LC/SM/50KM) Transceiver
- **8330-169-V1** MINI GBIC 1000XD (LC/SM/60KM) Transceiver
- **8330-167-V1** MINI GBIC 1000ZX (LC/SM/80KM) Transceiver
- **8330-170-V1** MINI GBIC 1000EZX (LC/SM/120KM) Transceiver
- **8330-168-V1** MINI GBIC 10/100/1000T (100m) Transceiver
- **8330-060-V1** MINI GBIC 100Base (LC/MM/2KM) Transceiver
- **8330-065-V1** MINI GBIC 100Base (LC/MM/5KM) Transceiver
- **8330-061-V1** MINI GBIC 100Base (LC/SM/30KM) Transceiver
- **8330-197-V1** 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)
- **8330-198-V1** 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)
- **8330-195-V1** 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)
- **8330-196-V1** 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)
- **8330-188-V1** 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)
- **8330-189-V1** 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)
- **8330-186-V1** 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)

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