

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(12V model)
- 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 provide 30 Watts output per PoE port for Powered Devices. The switch supports wide operating temperature, range from -40°C to 75°C.

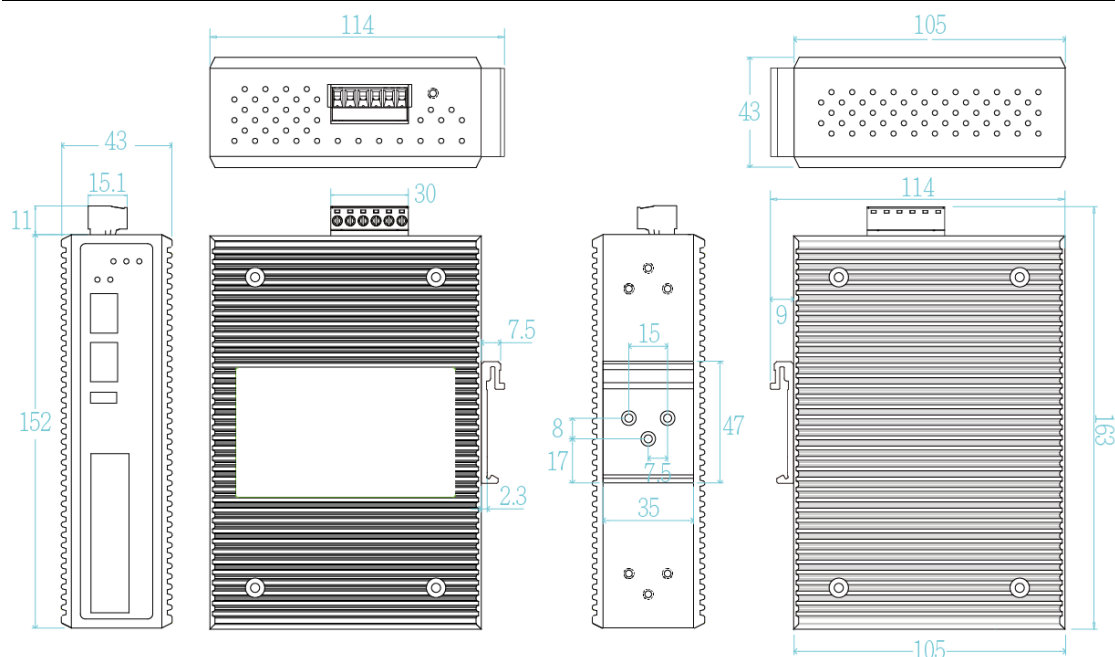
The Lantech IPGS-0204DSFP is designed to meet the

demands of Industrial environments, comes packaged in a robust IP30 housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability test requirements.

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)
- PoE 80W budget for 12V input, 120W 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)

SPECIFICATION

Hardware Specification		Power Supply	DC 9.5V~56V(12V model); Redundant power DC45 to 56V; redundant power (48V model)
Standards	IEEE802.3 10Base-T Ethernet	PoE budget	120W@48/24VDC
	IEEE802.3u 100Base-TX		80W @12VDC
	IEEE802.3ab 1000Base-T Ethernet	Power Consumption	6W (switch)
	IEEE802.3z Gigabit fiber	Operating Humidity	5% to 95% (Non-condensing)
	IEEE802.3x Flow Control and Back Pressure	Operating Temperature	-40°C ~ 75°C
Switch Architecture	IEEE802.3at/af Power over Ethernet	Storage Temperature	-40°C ~ 85°C
	Back-plane (Switching Fabric): 12Gbps	Case Dimension	IP30, 43mm (W) x 152mm (H) x 105mm (D)
Transfer Rate	14,880pps for Ethernet port	Installation	DIN rail or Wall mounting** design
	148,800pps for Fast Ethernet port	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
Packet Buffer	1Mbits	Safety	EN 60950-1
Mac Address	8K MAC address table	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Jumbo frame	10KB on all ports	MTBF	12V model: 1,291,990 hrs
Connector	10/100/1000T: 4 x RJ-45	Warranty	48V model: 1,414,427 hrs
	Mini-GBIC: 2 x 100/1000 Dual Speed SFP Sockets		5 years
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.		
LED	Negative (VCC-): RJ-45 pin 3,6.		
	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)		

**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

Datasheet Version 2.5

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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)

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

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