

IPGS-0105DSFP-4

5 10/100/1000T + 1 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-0105DSFP-4 is a 5 10/100/1000T + 1 Dual Speed SFP with 4 IEEE 802.3at/af High Power PoE Industrial Switch.

The IPGS-0105DSFP-4 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-0105DSFP-4 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.

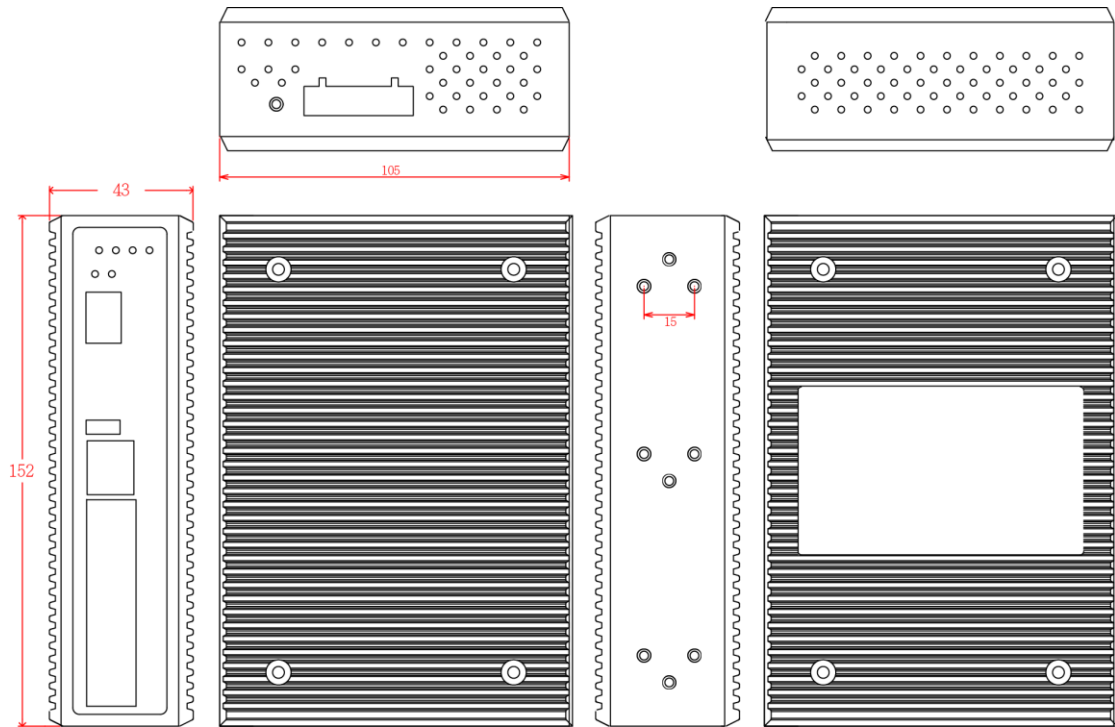
With voltage boost design, the IPGS-0105DSFP-4-12V can work from 12/24V input power source and boost the voltage to 48VDC to feed the POE power over Ethernet cable for any vehicles that usually has 12/24V power source. The slim compact design is able to fit in variety of cabinets and space.

FEATURES & BENEFITS

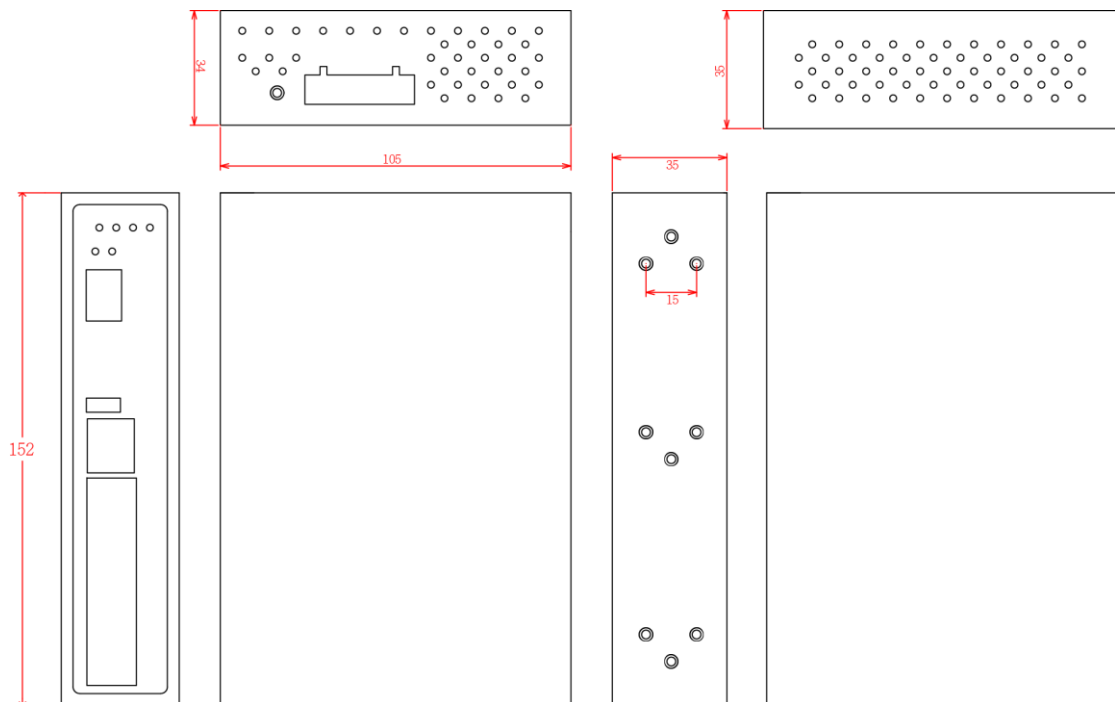
- Built-in 12 to 48V DC-DC converter for PoE(12V model)
- Embedded 4-port PoE 802.3at inject function
- DIP switch to adjust SFP 100M or 1000M speed
- Back-plane (Switching Fabric): 12Gbps
- Supports wide operating temperature (-40°C~75°C)
- PoE 80W budget for 12V input, 120W for 24V input
- Redundant power with polarity reverse protection
- 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		Power Consumption	120W (PoE Full load 48V / 24V input); 6W (switch) 80W (PoE full load 12V input)
Switch Architecture	Back-plane (Switching Fabric): 12Gbps	Operating Humidity	5% to 95% (Non-condensing)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Operating Temperature	-40°C ~ 75°C
Packet Buffer	1Mbits	Storage Temperature	-40°C ~ 85°C
Mac Address	8K MAC address table	Case Dimension	IP30, 43mm (W) x 152mm (H) x 105mm (D) (12V model) 35mm (W) x 152mm (H) x 105mm (D) (48V model)
Connector	10/100/1000T: 5 x RJ-45 Mini-GBIC: 1 x 100/1000 Dual Speed SFP Sockets	Installation	DIN rail or Wall mounting** design
DIP Switch	SFP Speed 1000M or 100M	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
Protocol	CSMA/CD	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
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.	Safety	EN 60950-1
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Red) 4 port 10/100/1000T w/PoE: Link/Activity (Green), Full duplex/Collision (Yellow) ; PoE (Yellow) 1 port 10/100/1000T: Link/Activity (Green), Full duplex/Collision (Yellow) SFP port: LNK/ACT(Green)	MTBF	NA
Power Supply	DC 9.5V~57V(12V model); Redundant power DC45 to 57V; redundant power (48V model)	Warranty	5 years

**Optional

ORDERING INFORMATION

- **IPGS-0105DSFP-4-12V.....P/N: 8350-968**
5 10/100/1000T + 1 Dual Speed SFP Industrial Switch w/4 PoE 802.3at Injectors & 12~48VDC input
- **IPGS-0105DSFP-4-48V.....P/N: 8350-969**
5 10/100/1000T + 1 Dual Speed SFP Industrial Switch w/4 PoE 802.3at Injectors & 48VDC 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)

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| ■ 8330-162X MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-189 LTSFP-1000BX-10KM Transceiver (WDM 1550) |
| ■ 8330-163X MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-186 LTSFP-1000BX-20KM Transceiver (WDM 1310) |
| ■ 8330-165X MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-180 LTSFP-1000BX-40KM Transceiver (WDM 1310) |
| ■ 8330-166 MINI GBIC 1000XD (LC/50km) Transceiver | ■ 8330-182 LTSFP-1000BX-40KM Transceiver (WDM 1550) |
| ■ 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-181 LTSFP-1000BX-60KM Transceiver (WDM 1310) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-183 LTSFP-1000BX-60KM Transceiver (WDM 1550) |
| ■ 8330-170 MINI GBIC 1000EZ (120km) Transceiver | ■ 8330-184 LTSFP-1000BX-80KM Transceiver (WDM 1490) |
| ■ 8330-168 MINI GBIC 1000T (100m) Transceiver | ■ 8330-185 LTSFP-1000BX-80KM Transceiver (WDM 1550) |
| ■ 8330-188 LTSFP-1000BX-10KM Transceiver (WDM 1310) | |

Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw

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