

IPGS-0005T-4

4 10/100/1000T + 1 1000T 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 54VDC(12V model)
- PoE budget 80W(12V);120W(24V or 48V)
- Wide operating temperature range from -40°C to 75°C



OVERVIEW

The Lantech IPGS-0005T-4 is a 4 10/100/1000T + 1 1000T with 4 IEEE 802.3at/af High Power PoE Industrial Switch.

The IPGS-0005T-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-0005T-4 is designed to meet the demands of Industrial environments, comes packaged in a robust IP30

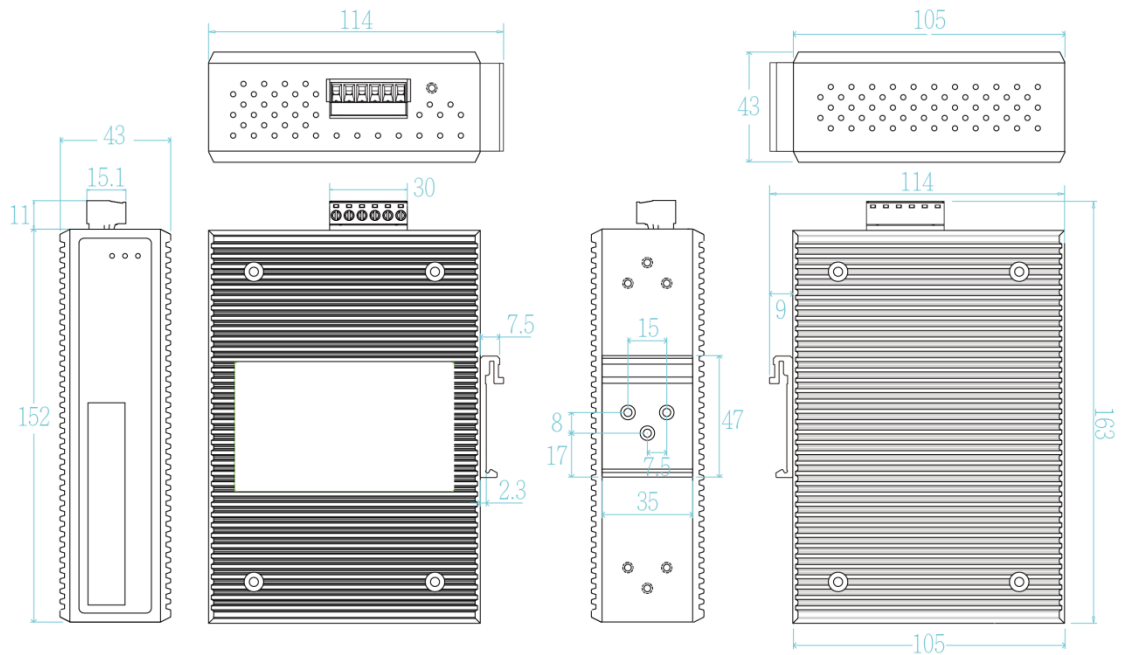
housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability test requirements.

With voltage boost design, the IPGS-0005T-4-12V can work from 12/24V input power source and boost the voltage to 54VDC to feed the POE power over Ethernet cable for any vehicles that usually has 12/24V power source. It can provide PoE budget of 80W at 12V input or 120W at 24V/48V input. 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
- Back-plane (Switching Fabric): 10Gbps
- 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; Redundant power (12V model) DC 44V~56V; Redundant power (48V model)
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T Ethernet IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	Power	120W (PoE Full load 48V / 24V input); 6W (switch)
Switch Architecture	Back-plane (Switching Fabric): 10Gbps	Consumption	80W (PoE full load 12V input)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Operating Humidity	5% to 95% (Non-condensing)
Packet Buffer	1Mbits	Operating Temperature	-40°C ~ 75°C
Mac Address	8K MAC address table	Storage Temperature	-40°C ~ 85°C
Jumbo frame	10KB on all ports	Case Dimension	IP30, 43mm (W) x 152mm (H) x 105mm (D)
Connector	10/100/1000T: 4 x RJ-45 1000T: 1 x RJ-45	Installation	DIN rail or Wall mounting** design
Protocol	CSMA/CD	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 EN55022 Class A, CE EN55024
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.	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Red) 1 port 10/100/1000T: Link/Activity (Green), Speed (Yellow) ; 4 port 10/100/1000T (PoE): Link/Activity (Green), PoE (Yellow)	Safety	EN 60950-1
		MTBF	12V model: 1,291,990 hrs 48V model: 1,414,427 hrs
		Warranty	5 years

**Optional

ORDERING INFORMATION

- **IPGS-0005T-4-12V.....P/N: 8350-970**
4 10/100/1000T + 1 1000T industrial switch w/4 PoE 802.3at Injectors & 9.5~56VDC input
- **IPGS-0005T-4-48V.....P/N: 8350-971**
4 10/100/1000T + 1 1000T industrial Switch w/4 PoE 802.3at Injectors & 44~56VDC 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)

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