

# 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 9.5VDC to 56VDC(12Vmodel)
- PoE budget 50W(12V);90W(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 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-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.

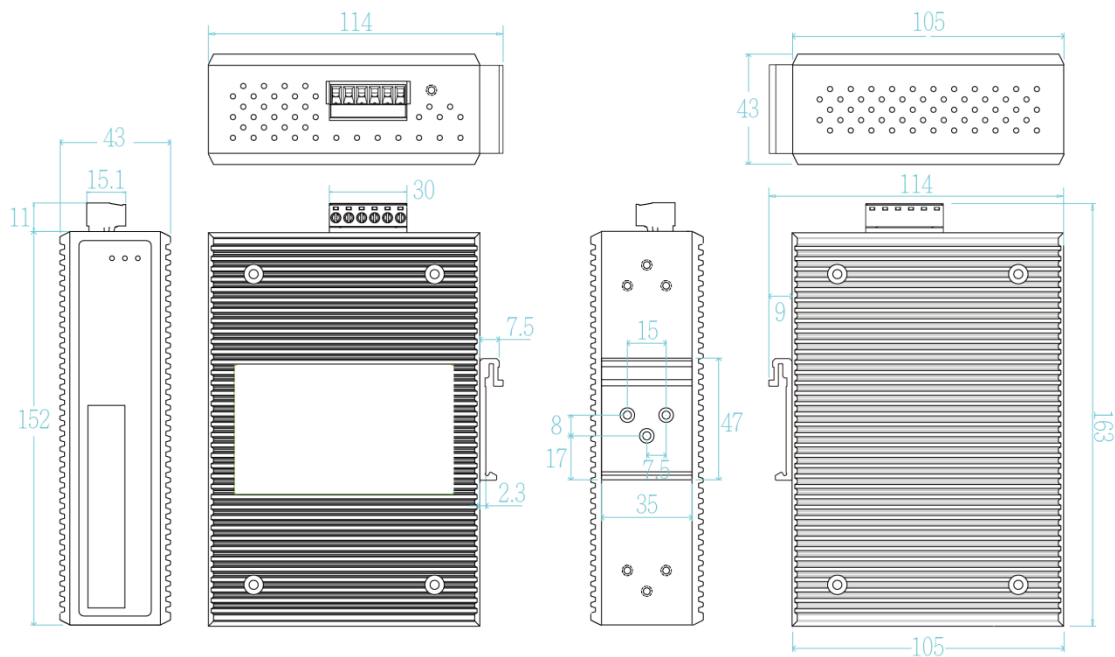
With voltage boost design, the IPGS-0005T-4-12V can work from 12/24V input power source and boost the voltage to 54VDC to feed the POE power over Ethernet cable for any vehicles that usually has 12/24V power source. It can provide PoE budget of 50W at 12V input or 90W at 24V/48V input. The slim compact design is able to fit in variety of cabinets and space.

## FEATURES & BENEFITS

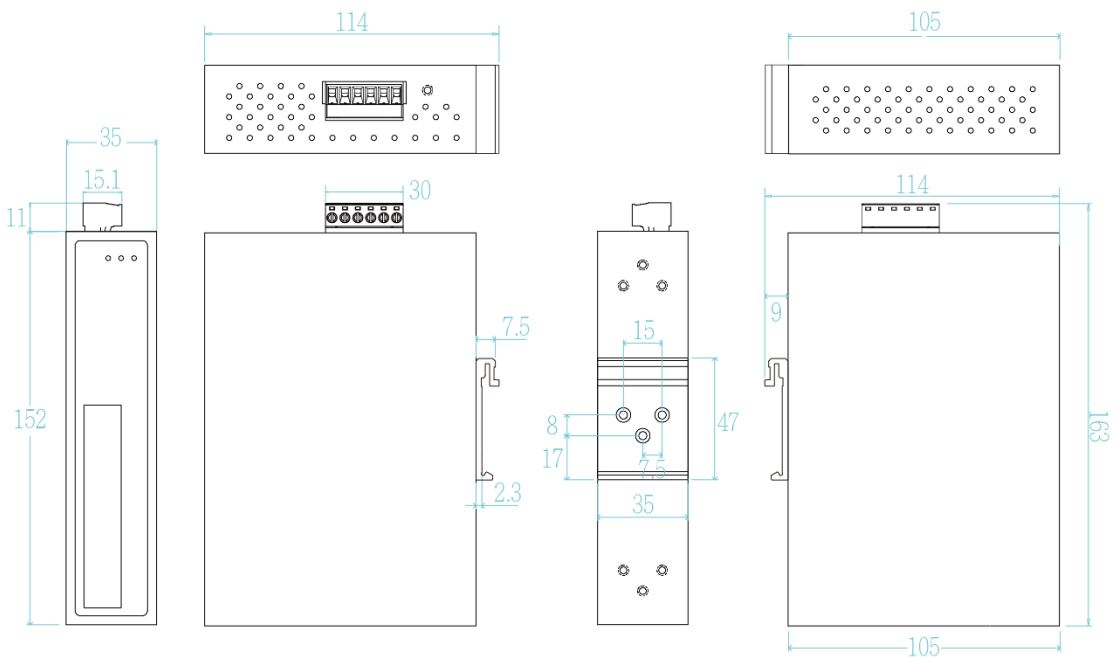
- Built-in 12 to 48V DC-DC converter for PoE(12V model)
- Embedded 4-port PoE 802.3at inject function
- Back-plane (Switching Fabric): 10Gbps
- Supports wide operating temperature (-40°C~75°C)
- PoE 50W buget for 12V input, 90W for 24V input
- Redundant power with polarity reverse protection
- 10KB Jumbo 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	Switch Architecture	Back-plane (Switching Fabric): 10Gbps
	IEEE802.3u 100Base-TX		Transfer Rate
	IEEE802.3ab 1000Base-T Ethernet	Packet Buffer	14,880pps for Ethernet port
	IEEE802.3x Flow Control and Back Pressure		148,800pps for Fast Ethernet port
	IEEE802.3at/af Power over Ethernet		1,488,000pps for Gigabit Ethernet / Gigabit Fiber port

<b>Mac Address</b>	8K MAC address table	<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Jumbo frame</b>	10KB on all ports	<b>Operating Temperature</b>	-40°C ~ 75°C
<b>Connector</b>	10/100/1000T: 4 x RJ-45 1000T: 1 x RJ-45	<b>Storage Temperature</b>	-40°C ~ 85°C
<b>Protocol</b>	CSMA/CD	<b>Case Dimension</b>	IP30, 43mm (W) x 152mm (H) x 105mm (D) (12V model) 35mm (W) x 152mm (H) x 105mm (D) (48V model)
<b>PoE pin assignment</b>	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.	<b>Installation</b>	DIN rail or Wall mounting** design
<b>LED</b>	<b>Per unit:</b> Power 1 (Green), Power 2 (Green), Fault (Red) <b>1 port 10/100/1000T:</b> Link/Activity (Green), Speed (Yellow) ; <b>4 port 10/100/1000T (PoE):</b> Link/Activity (Green), PoE (Yellow)	<b>EMC/EMI</b>	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
<b>Power Supply</b>	DC 9.5V~56V; Redundant power (12V model) DC 44V~56V; Redundant power (48V model)	<b>Safety</b>	EN 60950-1
<b>Power Consumption</b>	90W (PoE Full load 48V / 24V input); 6W (switch) 50W (PoE full load 12V input) (50-57VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request. **	<b>MTBF</b>	12V model: 1,291,990 hrs 48V model: 1,414,427 hrs
		<b>Warranty</b>	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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