

IPGS-0101T (12V/48V)

Industrial Gigabit Switch with PoE 802.3at/af up to 30W

- IEEE802.3at/af PoE/PSE 30W
- Voltage booster design from 12V to 54V (12V model)
- Extends Power over Ethernet installations beyond 100 Meters
- Operating Temperature Range from -40°C to 75°C (E model)
- AREMA** part 11.5.1 compliance



OVERVIEW

The Lantech IPGS-0101T is an Industrial high power PoE Gigabit Switch that can feed up to 30W over 2 pairs under 802.3at/af standard.

Lantech IPGS-0101T is fully compliant with IEEE 802.3at/af standard. The 12V model can take 9.5~57VDC input voltage for PoE feeding up to 30W which is suitable for vehicle application. Lantech IPGS-0101T is the best industrial PoE Gigabit Switch for outdoor IP CAM, PTZ, heater, wireless AP etc.

Hardened industrial design with extended temperature range; CE, FCC, LVD, AREMA part 11.5.1 compliance**

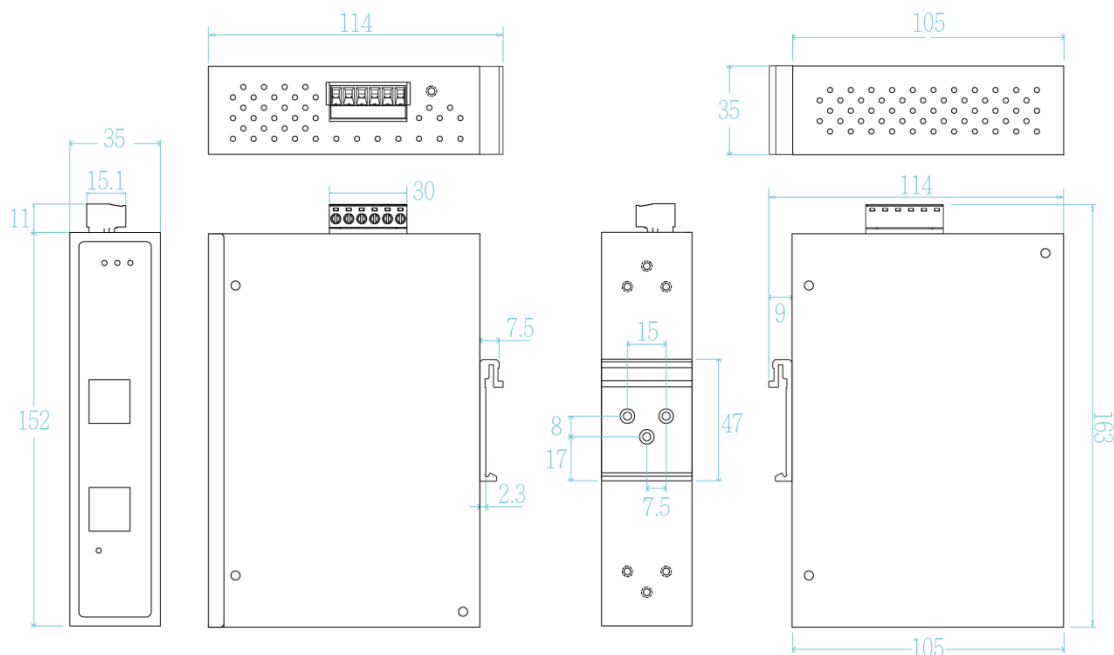
It provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

With CE, FCC, LVD and AREMA** part 11.5.1 verification, Lantech IPGS-0101T is best for outdoor community, vehicle, railway, process control automation etc. For more usage flexibilities, IPGS-0101T-E supports wide operating temperature from -40°C to 75°C.

FEATURES & BENEFITS

- **System Interface/Performance**
 - 1x 10/100/1000T + 1 10/100/1000T with PoE switch
 - Compliant with 802.3at/af PoE standard
 - Output PoE up to 30W
- **Voltage booster design from 12V input to 54V output. (12V model)**
- **Can extend Power over Ethernet installations beyond 100 Meters**
- **Dual Power Input with Terminal Block X2**
- **Metal Housing with DIN Rail and Wall Mount** Design**
- **Supports Wide Operating Temperature -40°C~ 75°C (E model)**
- **Power polarity protection**
- **AREMA** part 11.5.1 compliance (-AMA models)**
- **Relay alarm output for system events**

DIMENSIONS (unit=mm)



SPECIFICATION

Standards	IEEE802.3 10Base-T	Operating Humidity	5% – 95% (Non-condensing)	
	IEEE802.3u 100Base-TX/100Base-FX		Operating Temperature	-20°C~60°C / -4°F~140°F (standard model)
	IEEE802.3ab 1000Base-T		Storage Temperature	-40°C~75°C / -40°F~167°F (E model)
	IEEE802.3x Flow Control and Back pressure		Case Dimension	Metal case. 35 (W) x 105 (D) x 152 (H) mm
	IEEE802.3at/af PoE/PSE		Installation	DIN Rail and Wall Mount* Design
Switch Architecture	Store and Forward	EMI & EMS	FCC Part 15 Class A	
Connectors	RJ-45 socket x 2		IEC/EN61000-6-2	
	Power & Relay connector: 1 x 6-pole terminal block		CE EN55032 Class A	
Network Cable	10Base-T: UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable		CE EN55024: CE EN61000-4-2 (ESD) Level 3	
	EIA/TIA-568 100-ohm (100m)		CE EN61000-4-3 (RS) Level 3	
	100Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable		CE EN61000-4-4 (EFT) Level 3	
PoE pin assignment	Positive (VCC+): RJ-45 pin 1,2.		CE EN61000-4-5 ED3 (Surge) Level 3	
	Negative (VCC-): RJ-45 pin 3,6.		CE EN61000-4-6 (CS) Level 3	
LED	PW1 (Green); PW2 (Green); FAULT (Red)		CE N61000-4-8 (Magnetic field) Level 3	
Power Supply	Input Voltage: 44V ~ 57VDC (48V model)		AREMA** part 11.5.1 compliance	
	Input Voltage : 9.5V ~57VDC (12V model)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)	
Power Consumption	5 Watts max.	MTBF	TBC (standards: IEC 62380)	
PoE Budget	30W	Warranty	5 years	
Polarity protection	Power polarity protection	**Optional		
Relay Alarm	Provides one relay output for power fail alarm. Alarm Relay current carry ability: 1A @ DC24V			

ORDERING INFORMATION

Optional AREMA certified models are available with -AMA model names.

- **IPGS-0101T-12V.....P/N: 8350-046**
1x 10/100/1000T PoE switch up to 30W 2 pairs , 9.5V~57VDC dual input; Operating Temperature -20°C to 60°C
- **IPGS-0101T-12V-E.....P/N: 8350-047**
1x 10/100/1000T PoE switch up to 30W 2 pairs , 9.5V~57VDC dual input; Operating Temperature -40°C to 75°C
- **IPGS-0101T-48V.....P/N: 8350-048**
1x 10/100/1000T PoE switch up to 30W 2 pairs , 44V~57VDC dual input; Operating Temperature -20°C to 60°C
- **IPGS-0101T-48V-E.....P/N: 8350-049**
1x 10/100/1000T PoE switch up to 30W 2 pairs , 44V~57VDC dual input; Operating Temperature -40°C to 75°C

OPTIONAL ACCESSORIES

DIN Rail Power

- **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)
- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)

Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw

© 2020 Copyright Lantech Communications Global Inc. all rights reserved.
The revise authority rights of product specifications belong to Lantech Communications Global Inc.
Lantech may make changes to specification and product descriptions at anytime, without notice.