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℃ to 75℃ (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 under 802.3at/af standard.

Lantech IPGS-0101T is fully compliant with IEEE 802.3at/af standard. The 12V model can take 9.5~56VDC 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

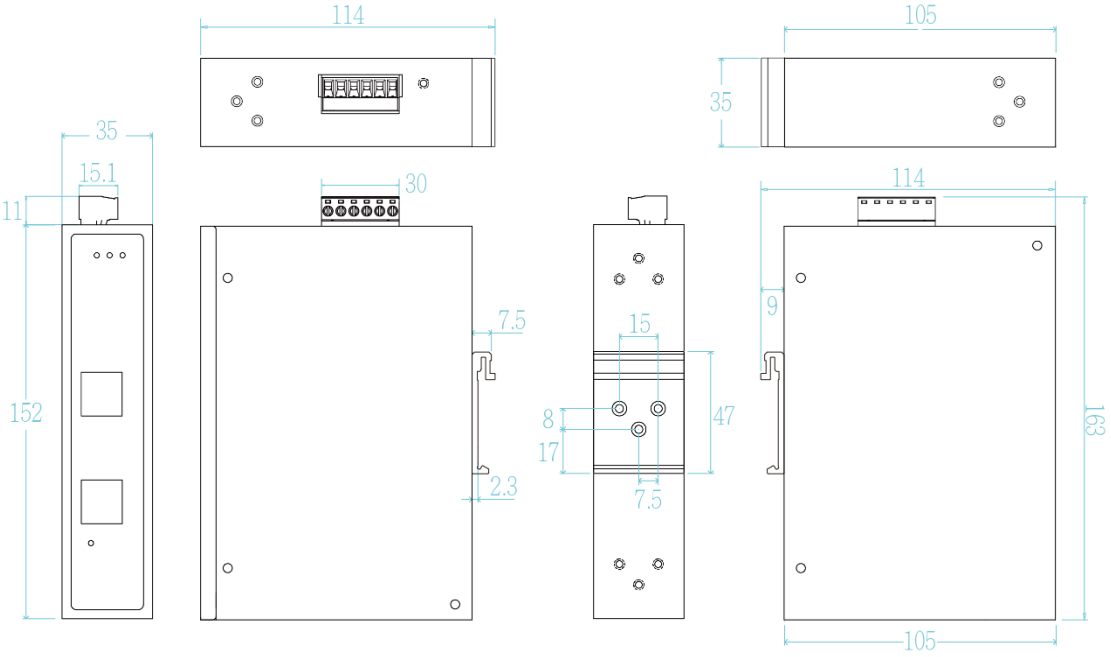
It provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless 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 IEEE802.3u 100Base-TX/100Base-FX IEEE802.3ab 1000Base-T IEEE802.3x Flow Control and Back pressure IEEE802.3at/af PoE/PSE
Switch Architecture	Store and Forward
Connectors	RJ-45 socket x 2 Power & Relay** connector: 1 x 6-pole terminal block
Network Cable	10Base-T: UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
PoE pin assignment	Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
LED	PW1 (Green); PW2 (Green); FAULT (Red)
Power Supply	Input Voltage: 44V ~ 56VDC (48V model) Input Voltage : 9.5V ~56VDC (12V model)
Power Consumption	5 Watts max.
PoE Budget	30W (50-57VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request. **

Polarity protection	Power polarity protection
Relay Alarm**	Provides one relay output for power fail alarm. Alarm Relay current carry ability: 1A @ DC24V
Operating Humidity	5% ~ 95% (Non-condensing)
Operating Temperature	-20°C~60°C /-4°F~140°F (standard model) -40°C~75°C / -40°F~167°F (E model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Case Dimension	Metal case. 35 (W) x 105 (D) x 152 (H) mm
Installation	DIN Rail and Wall Mount* Design
EMI & EMS	FCC Part 15 Class A IEC/EN61000-6-2 CE EN55032 Class A CE EN55024: CE EN61000-4-2 (ESD) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 ED3 (Surge) Level 3 CE EN61000-4-6 (CS) Level 3 CE N61000-4-8 (Magnetic field) Level 3 AREMA** part 11.5.1 compliance
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
MTBF	TBC (standards: IEC 62380)
Warranty	5 years

**Optional

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, 9.5V~56VDC 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, 9.5V~56VDC 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, 44V~56VDC 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, 44V~56VDC 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