

# IPGS-0008B

## 8 10/100/1000T PoE at/af Industrial Unmanaged Switch ; Optional 12V input model

- Support IEEE802.3af/at up to 30W per port
- Dual 9.5V~57VDC input(12V model) or Dual 48V DC input (48V model)
- Max PoE budget 240W at 48V, 120W at 24V, 80W at 12V input
- Relay alarm output system events



### OVERVIEW

Lantech IPGS-0008B is a high performance all 8 10/100/1000T industrial switch with w/8 PoE 802.3af/at Injectors

#### **Dual 48V or 12V input with max PoE budget**

Equipped with DC 12~48V redundant input power, the Lantech IPGS-0008B-12V is able to boost input voltage from 12V to 48V then feed each PoE port up to 15.4Watts/30Watts with total PoE power budget 80W at 12V, 120W at 24V input or 240W at 48V input.

#### **High reliability and extended working temperature**

Lantech IPGS-0008B provides  $\pm 2000V$  EFT and  $\pm 6000V$  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.

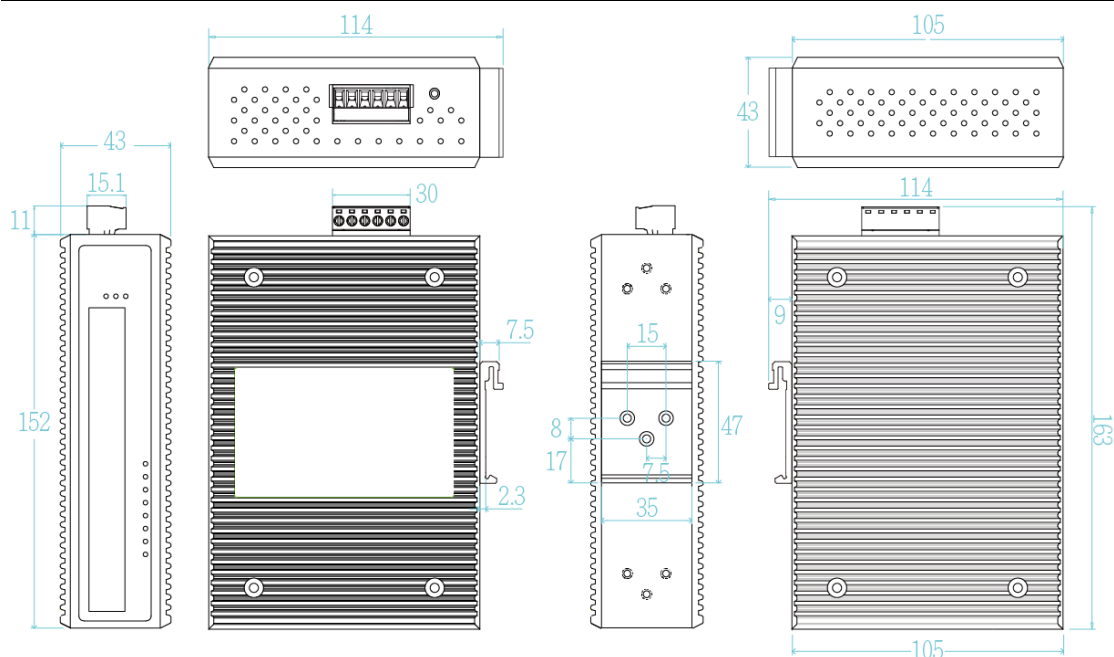
The -E model can be used in extreme environments with an operating temperature range of  $-40^{\circ}C$  to  $75^{\circ}C$ .

It is the most suitable PoE switch for bus, carriage, other vehicles and industrial areas where the power source is limited with 12V or 24V but has demand of IP surveillance or VoIP applications.

### FEATURES & BENEFITS

- 8 10/100/1000T industrial switch w/8 PoE 802.3af/at Injectors (Total 8 Ports Switch)
- Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W@54V; 15W @ 48V per port for active operation
- Dual 9.5V~57VDC power input for 12V model with PoE budget 80W at 12V input, 120W at 24V input
- Dual 45V~57VDC power input for 48V model with PoE budget 240W
- Back-plane (Switching Fabric): 16Gbps
- 9KB Jumbo frame supported on all ports
- Provides EFT protection  $\pm 2000$  VDC for power line.
- Supports  $\pm 6000$  VDC Ethernet ESD protection
- Relay alarm output system events
- IP30 metal housing with DIN rail and Wall-mount\*\* design

**DIMENSIONS (unit=mm)**



**SPECIFICATION**

Hardware Specification		PoE Budget	240W for 45~56V input(48V model) (54V input is recommended for 802.3at 30W applications) 80W at 12V input; 120W at 24V input(12V 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	PoE pin assignment	RJ-45 port # 1-#8 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides 30W at 54~57VDC/15W at 48V~57VDC. Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
Switch Architecture	Back-plane (Switching Fabric): 16Gbps	Power Consumption	5W
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port	Case Dimension	Metal case. IP-30, 43 (W) x 105 (D) x 152 (H) mm
Mac Address	16K MAC address table	Weight	900 g
Jumbo frame	9KB on all ports	Installation	DIN Rail and Wall Mount** Design
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	EMI & EMS	FCC Class A, CE EN55032 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8
Protocol	CSMA/CD	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green), Speed (Amber); PoE : Link/Act (Green)	MTBF	NA
Operating Humidity	5% ~ 95% (Non-condensing)	Warranty	5 years
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)		*Future Release **Optional
Storage Temperature	-40°C~85°C / -40°F~185°F		
Power Supply	45~57VDC(48V model); 9.5V~57VDC(12V model)		

**ORDERING INFORMATION**

- **IPGS-0008B-48V.....P/N: 8351-100**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Switch; dual 45~57VDC input; -20°C to 60°C
- **IPGS-0008B-48V-E.....P/N: 8351-101**  
8 10/100/1000T w/8 .PoE Mode A 802.3at/af 30W Industrial Switch; dual 45~57VDC input; -40°C to 75°C
- **IPGS-0008B-12V.....P/N: 8351-102**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Switch, dual 9.5V~57VDC input; -20°C to 60°C
- **IPGS-0008B-12V-E.....P/N: 8351-103**  
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Switch, dual 9.5V~57VDC input, -40°C to 75°C

**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)

**Lantech Communications Global Inc.**

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