

I(P)GS-0008B

8 10/100/1000T PoE at/af Industrial Ethernet Unmanaged Switch ; 12V/24V/48V input models



Non-PoE model



PoE model



OVERVIEW

Lantech I(P)GS-0008B is a high performance all 8 10/100/1000T industrial Ethernet switch with w/8/6 PoE 802.3af/at ports.

Galvanic isolation for dual 48V, 12V, 24V input with max PoE budget

The IPGS-0008B supports IEEE802.3af standard which can feed HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, high power wireless AP etc.

The IPGS-0008B-12V accepts power input 9~56VDC with IEEE802.3af standard up to 30W per PoE port with maximum 120W@24V and 80W@12V output (at dual input). The 24V model is also compliant with ISO 7637-2 which protects switch from being damaged by high voltage that could be found at vehicle cranky start. IPGS-0008B-12V with E-marking accepts input 9~36VDC for vehicle transient protection.

PoE 48V model accepts 44~56VDC power input and can feed 48V output for PoE feeding in vehicle at max 240W @48V input.

E-marking certificate, High reliability and extended working temperature

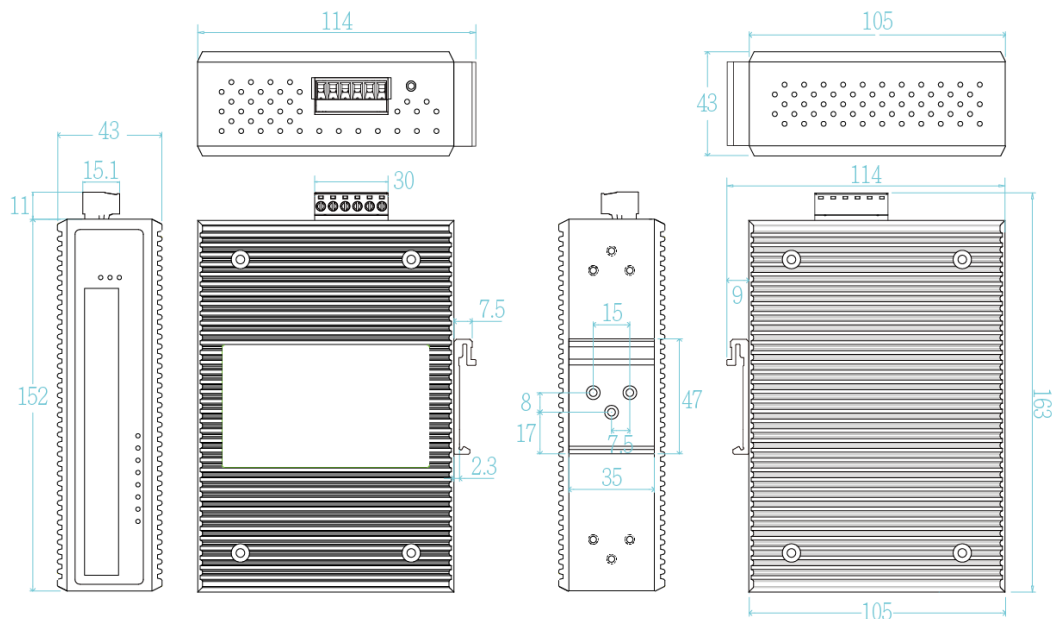
Lantech IPGS-0008B provides $\pm 2000V$ EFT and $\pm 6000V$ ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, 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 $75^{\circ}C$.

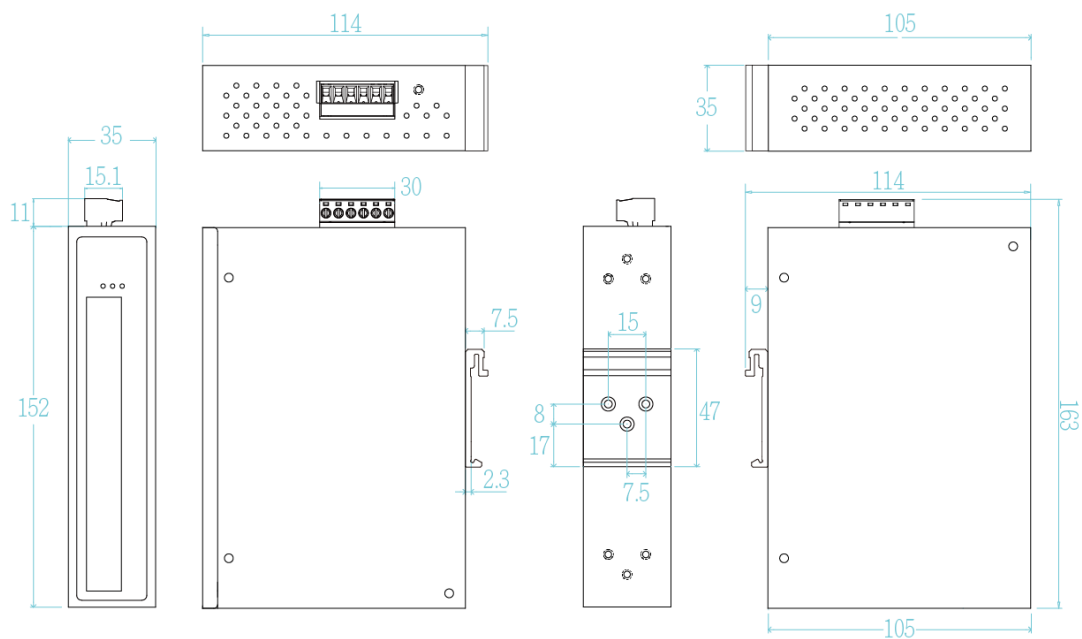
The E-marking certificate makes it the most suitable PoE switch for bus, carriage, other vehicles application as well as for industrial areas where the power source is limited with 12V but has demand of IP surveillance or VoIP applications. Only 12V or 24VDC input system is applicable for E-mark approval.

DIMENSIONS (unit=mm)

PoE model



Non-PoE model



SPECIFICATION

Hardware Specification		Connectors	Network Cable
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	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	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)
Switch Architecture	Back-plane (Switching Fabric): 16Gbps		1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port		
Mac Address	16K MAC address table	LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green), Speed (Amber);
Jumbo frame	10KB		

Operating Humidity	PoE: Active (Green) 5% ~ 95% (Non-condensing)	Power Consumption	Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-): RJ-45 pin 3,6 5W
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground Between power input and Ethernet port
Storage Temperature	-40°C~85°C / -40°F~185°F	Case Dimension	PoE model, Metal case. IP-30, 43 (W) x 105 (D) x 152 (H) mm Non-PoE model, Metal case. IP-30, 35 (W) x 105 (D) x 152 (H) mm
Power Supply	Non-PoE model: 9V~60VDC (12V model); 9V~36VDC (12V model with E-marking) 9~36VDC (24V model) PoE model: 9V~56VDC (12V model); 9V~36VDC (12V model with E-marking) 9~36VDC (24V model) ; 44~56VDC (48V model)	Weight	900 g
PoE Budget	240W for 44~56V input (48V model) (50-57VDC input is recommended for 802.3at 30W applications) 80W at 12V input; 120W at 24V input Higher PoE budget can be applied upon request. **	Installation	DIN Rail and Wall Mount** Design
PoE pin assignment	-8 model: RJ-45 port # 1~#8 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides up to 30W Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-): RJ-45 pin 3,6 -6 model: #1~#6 support IEEE 802.3at/af End-point. Alternative A mode. Per port provides up to 30W	Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
		EMI & EMS	FCC Class A, CE EN61000-6-2, 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
		Safety	EN62368 (LVD)
		Stability Testing	IEC 60068-2-27 (Shock), IEC 60068-2-31 (Shock), IEC 60068-2-64 (Vibration), IEC 60068-2-80 (Vibration)
		Vehicle certificate	E13 marking (-12V;-24V model)
		MTBF	NA

*Future Release
**Optional

ORDERING INFORMATION

- **IPGS-0008B-48V.....P/N: 8351-100**
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 44~56VDC input; -20°C to 60°C
- **IPGS-0008B-6-48V.....P/N: 8351-1001**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 44~56VDC 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 Ethernet Switch; dual 44~56VDC input; -40°C to 75°C
- **IPGS-0008B-6-48V-E.....P/N:8351-1011**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 44~56VDC input; -40°C to 75°C
- **IPGS-0008B-12V.....P/N: 8351-1022**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -20°C to 60°C; E-Marked
- **IPGS-0008B-6-12V.....P/N:8351-1023**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -20°C to 60°C; E-Marked
- **IPGS-0008B-12V-E.....P/N: 8351-1032**
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -40°C to 75°C; E-Marked
- **IPGS-0008B-6-12V-E.....P/N:8351-1033**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -40°C to 75°C; E-Marked
- **IPGS-0008B-12V.....P/N: 8351-102**
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~56VDC input; -20°C to 60°C
- **IPGS-0008B-6-12V.....P/N:8351-1021**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~56VDC 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 Ethernet Switch, dual 9V~56VDC input; -40°C to 75°C
- **IPGS-0008B-6-12V-E.....P/N:8351-1031**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~56VDC input; -40°C to 75°C
- **IPGS-0008B-24V.....P/N: 8351-1002**
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -20°C to 60°C; E-Marked
- **IPGS-0008B-6-24V.....P/N:8351-1003**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -20°C to 60°C; E-Marked
- **IPGS-0008B-24V-E.....P/N: 8351-1004**
8 10/100/1000T w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -40°C to 75°C; E-Marked
- **IPGS-0008B-6-24V-E.....P/N:8351-1005**
8 10/100/1000T w/6 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~36VDC input; -40°C to 75°C; E-Marked
- **IGS-0008B-12V.....P/N: 8351-1143**
8 10/100/1000T Industrial Ethernet Switch, dual 9~36VDC input; -20°C to 60°C; E-Marked

- **IGS-0008B-12V-E.....P/N: 8351-1151**
8 10/100/1000T Industrial Ethernet Switch, dual 9~36VDC input; -40°C to 75°C; E-Marked
- **IGS-0008B-24V.....P/N: 8351-1141**
8 10/100/1000T Industrial Ethernet Switch, dual 9~36VDC input; -20°C to 60°C; E-Marked
- **IGS-0008B-24V-E.....P/N: 8351-1142**
8 10/100/1000T Industrial Ethernet Switch, dual 9~36VDC input; -40°C to 75°C; E-Marked
- **IGS-0008B-12V.....P/N: 8351-114**
8 10/100/1000T Industrial Ethernet Switch, dual 9V~60VDC input; -20°C to 60°C
- **IGS-0008B-12V-E.....P/N: 8351-115**
8 10/100/1000T Industrial Ethernet Switch, dual 9V~60VDC 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.

www.lantechcom.tw
info@lantechcom.tw

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