

IPGS-0008B

8 10/100/1000T PoE at/af Industrial Ethernet Unmanaged

Switch; 12V/48V input models

- Support IEEE802.3at/af up to 30W per port
- Dual 9V~56VDC input (12V model) compliant with ISO 7637-2
- Dual 45~56V DC input (48V model)
- Galvanic isolation protection (power input /Ethernet port to case ground)
- Max PoE budget 240W at 48V, 80W at 12V input
- Relay alarm output for power fail and alarm
- E-marking certificate for vehicle application (-12V model)

















OVERVIEW

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

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

The IPGS-0008B supports IEEE802.3at/af 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 IEEE802.3at/af standard up to 30W per PoE port with maximum 120W @24V and 80W @12V output (at dual input). The 12V 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.

48V model accept 45~56VDC 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 ±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, Semiconductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°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. (-12V model)

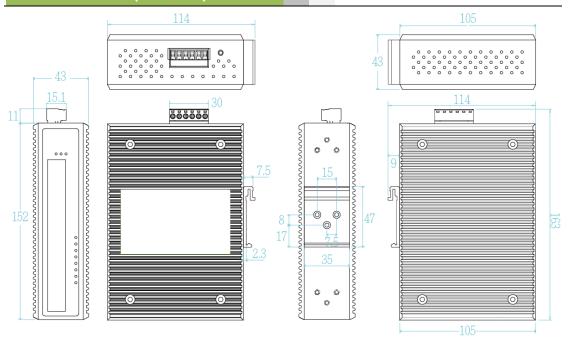
FEATURES & BENEFITS

- 8 10/100/1000T industrial Ethernet 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 per port for active operation
- Dual 9V~56VDC power input for 12V model with ISO7637 compliance; PoE buget 80W at 12V input, 120W at 24V input
- Dual 45V~56VDC power input for 48V model with PoE budget 240W
- Back-plane (Switching Fabric): 16Gbps

- 10KB Jumbo frame
- Provides EFT protection ±2000 VDC for power line.
- Supports ±6000 VDC Ethernet ESD protection
- Galvanic isolation between power input and case ground; between Ethernet port and case ground
- E-marking certificate for vehicle application (-12V model)
- Relay alarm output for power fail and alarm
- 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)	SPECIFICATION				
IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-TEthernet IEEE802.3x Flow Control and Back Pressure Power Negative (VCC-): RJ-45 pin 3,6 Power Negative (VCC-):	Hardware S	pecification	PoE Budget	240W for 45~56V input(48V model)	
IEEE802.3ab 1000Base-T Ethernet IEEE802.3ax Flow Control and Back Pressure Positive (VCC-): RJ-45 pin 1,2 Negative (VCC-): RJ-45 pin 3,6	Standards	IEEE802.3 10Base-T Ethernet		80W at 12V input; 120W at 24V input(12V model)	
IEEE802.3x Flow Control and Back Pressure IEEE802.3x Flow Control and Case Broon IEEE802.3x Flow Control and Back Pressure IEEE802.3x Flow Control		IEEE802.3u 100Base-TX	PoE pin	RJ-45 port # 1~#8 support IEEE 802.3at/af End-	
IEEE802_3at/af Power over Ethernet Positive (VCC+): RJ-45 pin 1,2		IEEE802.3ab 1000Base-T Ethernet	assignment	point, Alternative A mode. Per port provides up to	
Switch Architecture Back-plane (Switching Fabric): 16Gbps Negative (VCC-): RJ-45 pin 3,6		IEEE802.3x Flow Control and Back Pressure		30W.	
Transfer Rate		IEEE802.3at/af Power over Ethernet		Positive (VCC+): RJ-45 pin 1,2	
148,800pps for Fast Ethernet port 1,488,000pps for Gigabit 1,488,00pps for Gigabit 1,488,000pps for Gigabit 1,488,000pps for Gi	Switch Architecture	Back-plane (Switching Fabric): 16Gbps		Negative (VCC-): RJ-45 pin 3,6	
1,488,000pps for Gigabit Ethernet port 1,488,000pps for Gigabit Ethernet port 16K MAC address table Jumbo frame 10KB 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 Retwork Cable 10Base-Tz 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) 1000Base-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) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) LED Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green), Speed (Amber); PoE: Active (Green) Operating -20°C-60°C / -4°F-140°F (Standard model) Temperature -40°C-75°C / -40°F-185°F Temperature Galvanic Isolation Between power input and case ground Between Ethernet port and case ground Metal case. IP-30, 43 (W) x 105 (D) x 152 (H) mm Weight 900 g Installation DIN Rail and Wall Mount* Design 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 EN61000-4-4, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8 Safety Stability Testing IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-30 (Vibration) Vehicle certificate E13 marking (-12V model) MTBF NA *Future Release *Fouriary Safety *Future Release *Fouriary Safety *Future Release *Toptional	Transfer Rate	14,880pps for Ethernet port	Power	5W	
Mac Address 16K MAC address table Between Ethernet port and case ground		148,800pps for Fast Ethernet port	Consumption		
Dumbo frame 10KB		1,488,000pps for Gigabit Ethernet port	Galvanic Isolation	Between power input and case ground	
Total	Mac Address	16K MAC address table		Between Ethernet port and case ground	
Function	Jumbo frame	10KB	Case Dimension	Metal case. IP-30,	
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) 1000Base-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) 1000Base-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) CE EN61000-4-2, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-8 Safety EN62368 (LVD) Ethernet port: Link/Activity (Green), Speed (Amber); PoE: Active (Green) Stability Testing IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) IEC60068-2-6 (Vibration) IEC60068-2-6 (Vibration) Vehicle certificate E13 marking (-12V model) MTBF NA Warranty 5 years *Future Release Temperature 40°C-85°C / -40°F-185°F *Future Release **Optional**	Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X		43 (W) x 105 (D) x 152 (H) mm	
Network Cable		function	Weight	900 g	
EIA/TIA-568 100-ohm (100m)		Power & P-Fail connector: 1 x 6-pole terminal block	Installation	DIN Rail and Wall Mount** Design	
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) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6,	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable	Relay Alarm	Provides one relay output for power fail and alarm.	
EIA/TIA-568 100-ohm (100m) CE EN55032 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8 Safety EN62368 (LVD)		EIA/TIA-568 100-ohm (100m)		Alarm Relay current carry ability: 1A @ DC24V	
1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-6, CE EN61000-4-8 CE EN61000-4-6, CE EN		100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable	EMI & EMS	FCC Class A, CE EN61000-6-2,	
EIA/TIA-568 100-ohm (100m) CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8		EIA/TIA-568 100-ohm (100m)		CE EN55032 Class A, CE EN55024,	
Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Safety EN62368 (LVD)		1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable		CE EN61000-4-2, CE EN61000-4-3,	
Red); Ethernet port: Link/Activity (Green), Speed (Amber); PoE : Active (Green) Stability Testing IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration) IEC60068-2-7 (Shock), IEC60068-2-8 (Vibration) IEC60068-2-7 (Shock), IEC60068-2-8 (Vibration) IEC60068-2-6 (Vibration) IEC60068-2-7 (Shock), IEC60068-2-7 (Shock), IEC60068-2-7 (Shock), IEC60068-2-7 (Shock), IEC60068-2-6 (Vibration) IEC60068-2-7 (Shock),		EIA/TIA-568 100-ohm (100m)		CE EN61000-4-4, CE EN61000-4-5,	
Ethemet port: Link/Activity (Green), Speed (Amber); PoE : Active (Green) Operating Humidity Operating -20°C-60°C / -4°F-140°F (Standard model) Temperature Storage Temperature Ethemet port: Link/Activity (Green), Speed (Amber); PoE : Active (Green) Vehicle certificate E13 marking (-12V model) MTBF NA Warranty 5 years *Future Release **Optional	LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail		CE EN61000-4-6, CE EN61000-4-8	
PoE : Active (Green) IEC60068-2-6 (Vibration) Operating Humidity 5% ~ 95% (Non-condensing) Vehicle certificate E13 marking (-12V model) Operating -20°C-60°C / -4°F-140°F (Standard model) MTBF NA Temperature -40°C-75°C / -40°F-167°F(-E model) Warranty 5 years Storage -40°C-85°C / -40°F-185°F *Future Release Temperature **Optional		(Red);	Safety	EN62368 (LVD)	
Operating Humidity 5% ~ 95% (Non-condensing) Vehicle certificate £13 marking (-12V model) Operating Temperature -20°C-60°C / -4°F-140°F (Standard model) MTBF NA Vehicle certificate NA Warranty 5 years Storage Temperature -40°C-85°C / -40°F-185°F *Future Release **Optional		Ethernet port: Link/Activity (Green), Speed (Amber);	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock),	
Operating -20°C-60°C / -4°F-140°F (Standard model) MTBF NA Temperature -40°C-75°C / -40°F-167°F(-E model) Warranty 5 years Storage -40°C-85°C / -40°F-185°F *Future Release Temperature **Optional		PoE : Active (Green)		IEC60068-2-6 (Vibration)	
Temperature -40°C~75°C / -40°F~167°F(-E model) Warranty 5 years Storage -40°C~85°C / -40°F~185°F *Future Release Temperature **Optional	Operating Humidity	5% ~ 95% (Non-condensing)	Vehicle certificate	E13 marking (-12V model)	
Storage -40°C-85°C / -40°F-185°F *Future Release to the perature **Optional **Optional **Optional **Optional **Toptional **Top	Operating	-20°C~60°C / -4°F~140°F (Standard model)	MTBF	NA	
Temperature ***Optional	Temperature	-40°C~75°C / -40°F~167°F(-E model)	Warranty	5 years	
Control	Storage	-40°C~85°C / -40°F~185°F		*Future Release	
Power Supply 45~56VDC(48V model); 9V~56VDC(12V model)	Temperature			**Optional	
	Power Supply	45~56VDC(48V model); 9V~56VDC(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 Ethernet Switch; dual 45~56VDC 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 45~56VDC 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 Ethernet Switch, dual 9V~56VDC input; compliant with ISO7637-2* -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 \sim 56VDC input, compliant with ISO7637-2; -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 $50^{\circ}\text{C} \sim 70^{\circ}\text{C}$)

■ 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;

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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