

I(P)GS-0208C

8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo (8 PoE at/af)
 Industrial Unmanaged Switch ; Optional 12/24V input model

- Combo ports for dual behavior of 10/100/1000T or Dual speed SFP (100M/Giga fiber)
- Support IEEE802.3at/af up to 30W per port
- PoE model: Dual 9.5V~56VDC input (12V model); 9~36VDC (24V model); 44V~56VDC input (48V model)
- Non-PoE model: dual 9.5V~60VDC input (12V model); 9~36VDC (24V model)
- Max PoE budget 240W at 48V, 120W at 24V, 80W at 12V input
- E-marking certificate for vehicle application
 Only 24VDC input system is applicable for E-mark approval
- Relay alarm output system events



OVERVIEW

Lantech I(P)GS-0208C is a high performance all Gigabit switch with 8 10/100/1000T + 2x 10/100/1000T/Dual speed 100/1000M SFP combo (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-0208C-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-0208C 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, Semiconductor factory and assembly lines.

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

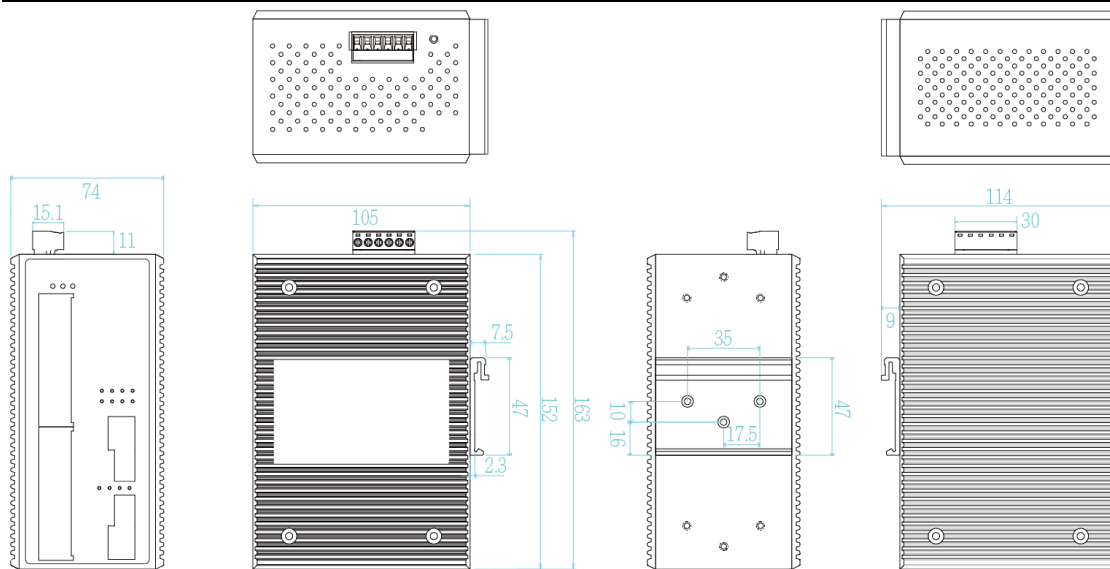
The E-marking certificate makes it the most suitable PoE switch for bus, carriage, other vehicles application as well as for industrial areas where the power source is limited with 12V but has demand of IP surveillance or VoIP applications. Only 24VDC input system is applicable for E-mark* approval.

FEATURES & BENEFITS

- 8 10/100/1000T + 2 10/100/1000T / Dual speed 100/1000M SFP combo (w/8 PoE 802.3af/at ports) (Total 10 Ports Switch)
- Embedded 8 PoE ports IEEE802.3af/at function to feed power up to 30W@54V; 15W @ 48V per port for active operation
- Dual 9.5V~56VDC power input for 12V model with PoE budget 80W at 12V input, 120W at 24V input

- Dual 45V~56VDC power input for 48V model with PoE budget 240W
- Dual 9V~36VDC power input for 24V model ; 120W at 24V input
- Dual 9.5V~60VDC power input for 12V model and dual 9V~36VDC power input for 24V model without PoE
- Back-plane (Switching Fabric): 20Gbps
- 9KB Jumbo frame supported on all ports
- Provides EFT protection ± 2000 VDC for power line.
- Supports ± 6000 VDC Ethernet ESD protection
- Relay alarm output system events
- Only 24VDC input system is applicable for E-mark approval
- IP30 metal housing with DIN rail and Wall-mount** design

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification			
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T Ethernet IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	Multi mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 μ m) Single mode: 0 to 30 km, 1310 nm (62.5/125 μ m) WDM 1.25Gbps: Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μ m); 0 to 80 km, 1490 nm (9/125 μ m); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μ m) WDM 125Mbps: Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 μ m); 0 to 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μ m)	
Switch Architecture	Back-plane (Switching Fabric): 26Gbps	Protocol	CSMA/CD
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green), Speed (Amber); PoE : Link/Act (Green); Mini-GBIC: Link/Activity (Green), Speed (Amber)
Mac Address	16K MAC address table	Operating Humidity	5% - 95% (Non-condensing)
Jumbo frame	9KB on all ports	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function 10/100/1000T/SFP Combo port: 2 x RJ-45 + 2 x 100/1000 SFP socket Power & P-Fail connector: 1 x 6-pole terminal block	Storage Temperature	-40°C~85°C / -40°F~185°F
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)	Power Supply	PoE model: 9~36VDC (24V model); 45~56VDC(48V model); 9.5V~56VDC(12V model) Non-PoE model: 9.5~60VDC (12V model); 9~36VDC (24V model);
Optical Cable	1.25Gbps: Multi mode: 0 to 550 m, 850 nm (50/125 μ m); 0 to 2 km, 1310 nm (50/125 μ m) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 μ m); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μ m) 125Mbps:	PoE Budget	80W at 12V input; 120W at 24V input(12V model) 100W for 9~36VDC at 24V input (24V model)

	240W for 45~56VDC at 48V input (48V model) (50~57VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request. **		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 EN61000-4-8 (Magnetic field) Level 3
PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides 30W at 54~56VDC/15W at 48V~56VDC. Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.		
Power Consumption	10W	Safety	EN62368 (LVD)
Case Dimension	Metal case. IP-30, 74 (W) x 114 (D) x 152 (H) mm	Stability Testing	IEC60068-2-31 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Weight	900 g	Vehicle certificate	E13 marking (-24V model)
Installation	DIN Rail and Wall Mount** Design	MTBF	NA
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V	Warranty	5 years
EMI & EMS	EN 55011:2016		

*Future Release
**Optional

ORDERING INFORMATION

- **IPGS-0208C-48V.....P/N: 8350-998**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo w/8 PoE Mode A 802.3at/af 30W Industrial Switch; dual 45~56VDC input; -20°C to 60°C
- **IPGS-0208C-48V-E.....P/N: 8350-999**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo w/8 .PoE Mode A 802.3at/af 30W Industrial Switch; dual 45~56VDC input; -40°C to 75°C
- **IPGS-0208C-12V.....P/N: 8351-001**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo w/8 PoE Mode A 802.3at/af 30W Industrial Switch, dual 9.5V~56VDC input; -20°C to 60°C
- **IPGS-0208C-12V-E.....P/N: 8351-002**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo w/8 PoE Mode A 802.3at/af 30W Industrial Switch, dual 9.5V~56VDC input; -40°C to 75°C
- **IPGS-0208C-24V.....P/N: 8350-9981**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo w/8 PoE Mode A 802.3at/af 30W Industrial Switch; dual 9~36VDC input; -20°C to 60°C
- **IPGS-0208C-24V-E.....P/N: 8350-9991**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo w/8 .PoE Mode A 802.3at/af 30W Industrial Switch; dual 9~36VDC input; -40°C to 75°C
- **IGS-0208C-12V.....P/N: 8351-0011**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo Industrial Switch, dual 9.5V~60VDC input; -20°C to 60°C
- **IGS-0208C-12V-E.....P/N: 8351-0021**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo Industrial Switch, dual 9.5V~60VDC input; -40°C to 75°C
- **IGS-0208C-24V.....P/N: 8350-9982**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo Industrial Switch; dual 9~36VDC input; -20°C to 60°C
- **IGS-0208C-24V-E.....P/N: 8350-9992**
8 10/100/1000T + 2 10/100/1000T/ Dual speed SFP combo Industrial Switch; dual 9~36VDC 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)

Mini GBIC (SFP)

- **8330-162-V1** MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver
- **8330-163-V1** MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver
- **8330-165-V1** MINI GBIC 1000LX (LC/SM/10KM) Transceiver
- **8340-0591-V1** MINI GBIC 1000LHX (LC/SM/40KM) Transceiver

■ 8330-166-V1	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	■ 8330-197-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)
■ 8330-169-V1	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	■ 8330-198-V1	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)
■ 8330-167-V1	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	■ 8330-195-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)
■ 8330-170-V1	MINI GBIC 1000EZ (LC/SM/120KM) Transceiver	■ 8330-196-V1	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)
■ 8330-168-V1	MINI GBIC 10/100/1000T (100m) Transceiver	■ 8330-188-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)
■ 8330-060-V1	MINI GBIC 100Base (LC/MM/2KM) Transceiver	■ 8330-189-V1	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)
■ 8330-065-V1	MINI GBIC 100Base (LC/MM/5KM) Transceiver	■ 8330-186-V1	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)
■ 8330-061-V1	MINI GBIC 100Base (LC/SM/30KM) Transceiver		

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