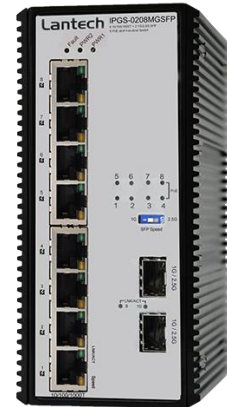


# IPGS-0208MGSFP

8 10/100/1000T + 2 1G/2.5G SFP 8 PoE at/af Industrial Unmanaged Switch ; Optional 12V input model

- DIP switch selectable SFP cage for 1G or 2.5G speed
- 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-0208MGSFP is a high performance all Gigabit switch with 8 10/100/1000T + 2x 1G/2.5G DIP switch selectable multi-Giga- rate SFP w/8 PoE 802.3af/at Injectors

### **DIP switch selectable SFP cage for 1G / 2.5G speed**

The unique 2.5G/1G SFP cage design can bring double bandwidth when uplink to central that is good for bandwidth hungry application. The DIP switch selector makes speed configuration easy.

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

Equipped with DC 12~48V redundant input power, the Lantech IPGS-0208MGSFP-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-0208MGSFP 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.

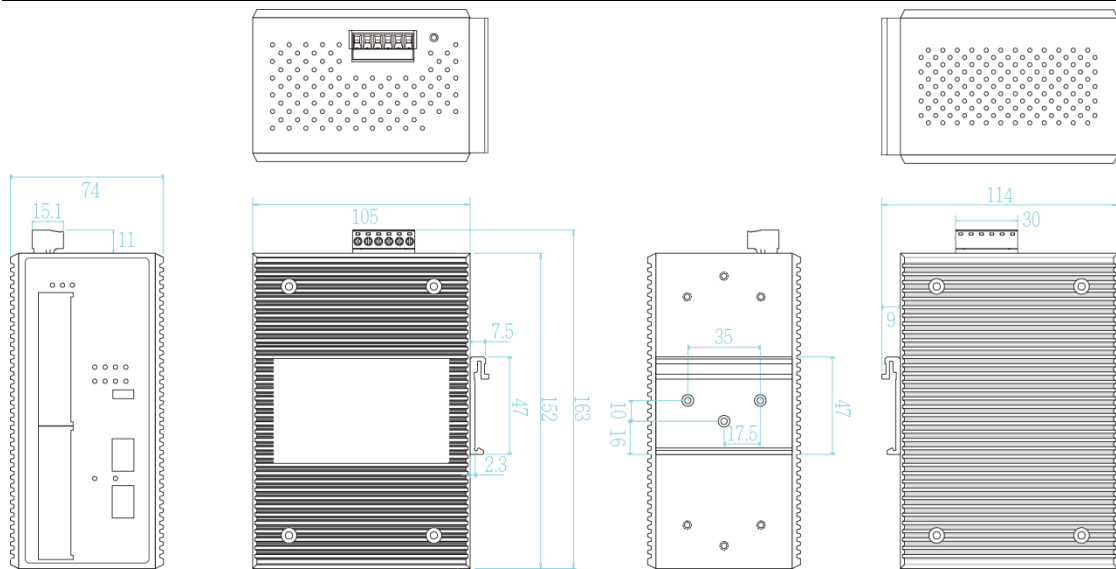
The -E model can be used in extreme environments with an operating temperature range of  $-40^{\circ}C$  to  $75^{\circ}C$ .

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 + 2 1G/2.5G DIP switch selectable SFP w/8 PoE 802.3af/at Injectors (Total 10 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): 26Gbps
- 10 KB 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		Protocol	CSMA/CD
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	LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) Ethernet port: Link/Activity (Green) PoE: Link/Act (Green); Mini-GBIC: Link/Activity (Green)
Switch Architecture	Back-plane (Switching Fabric): 26Gbps	Operating Humidity	5% - 95% (Non-condensing)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)
Mac Address	16K MAC address table	Storage Temperature	-40°C~85°C / -40°F~185°F
Jumbo frame	10 KB on all ports	Power Supply	45~57VDC(48V model); 9.5V~57VDC(12V model)
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function SFP port: 2 x 2.5G/1G selectable cage by Dip switch Power & P-Fail connector: 1 x 6-pole terminal block	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)
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)	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.
Optical Cable	<b>1.25Gbps:</b> Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2 km, 1310 nm (50/125 μm) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm) <b>2.5Gbps</b> Multi mode: 0 to 550 m, 850 nm (50/125 μm); Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 μm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 μm) <b>WDM 1.25Gbps:</b> Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) <b>WDM 2.5Gbps</b> Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm)	Power Consumption	10W
		Case Dimension	Metal case. IP-30, 74 (W) x 114 (D) x 152 (H) mm
		Weight	900 g
		Installation	DIN Rail and Wall Mount** Design
		Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
		EMI & EMS	FCC Class A, CE EN55022 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 N61000-4-8, EN61000-4-11
		Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
		MTBF	NA
		Warranty	5 years

\*Future Release  
\*\*Optional

## ORDERING INFORMATION

- **IPGS-0208MGSFP-48V**.....P/N: **8350-994**  
8 10/100/1000T + 2 1G/2.5G SFP w/8 PoE Mode A 802.3at/af 30W Industrial Switch; dual 45~57VDC input; -20°C to 60°C
- **IPGS-0208MGSFP-48V-E**.....P/N: **8350-995**  
8 10/100/1000T + 2 1G/2.5G SFP w/8 .PoE Mode A 802.3at/af 30W Industrial Switch; dual 45~57VDC input; -40°C to 75°C
- **IPGS-0208MGSFP-12V**.....P/N: **8350-996**  
8 10/100/1000T + 2 1G/2.5G SFP w/8 PoE Mode A 802.3at/af 30W Industrial Switch, dual 9.5V~57VDC input; -20°C to 60°C
- **IPGS-0208MGSFP-12V-E**.....P/N: **8350-997**  
8 10/100/1000T + 2 1G/2.5G SFP w/8 PoE Mode A 802.3at/af 30W Industrial Switch, dual 9.5V~57VDC input, -40°C to 75°C

## OPTIONAL ACCESSORIES

### 48~54VDC DIN Rail Power for 802.3at Applications

- **AD1240-48S**      48~57VDC, 4.3A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C  
(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1360-48S**      48~57VDC, 6.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C  
(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1500-48S**      48~57VDC, 9A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C  
(ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

### Mini GBIC (SFP)

- |  |   |
|--|---|
| ■ <b>8330-162X</b> MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ <b>8330-186</b> LTSFP-1000BX-20KM Transceiver (WDM 1310)          |
| ■ <b>8330-163X</b> MINI GBIC 1000SX2 (LC/2km) Transceiver  | ■ <b>8330-187</b> LTSFP-1000BX-20KM Transceiver (WDM 1550)          |
| ■ <b>8330-165X</b> MINI GBIC 1000LX (LC/10km) Transceiver  | ■ <b>8330-180</b> LTSFP-1000BX-40KM Transceiver (WDM 1310)          |
| ■ <b>8340-0591</b> MINI GBIC 1000LHX (LC/40km) Transceiver | ■ <b>8330-182</b> LTSFP-1000BX-40KM Transceiver (WDM 1550)          |
| ■ <b>8330-166</b> MINI GBIC 1000XD (LC/50km) Transceiver   | ■ <b>8330-181</b> LTSFP-1000BX-60KM Transceiver (WDM 1310)          |
| ■ <b>8330-169</b> MINI GBIC 1000XD (LC/60km) Transceiver   | ■ <b>8330-183</b> LTSFP-1000BX-60KM Transceiver (WDM 1550)          |
| ■ <b>8330-167</b> MINI GBIC 1000ZX (LC/80km) Transceiver   | ■ <b>8330-184</b> LTSFP-1000BX-80KM Transceiver (WDM 1490)          |
| ■ <b>8330-170</b> MINI GBIC 1000EZ (120km) Transceiver     | ■ <b>8330-185</b> LTSFP-1000BX-80KM Transceiver (WDM 1550)          |
| ■ <b>8330-168</b> MINI GBIC 1000T (100m) Transceiver       | ■ <b>8330-262</b> MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver |
| ■ <b>8330-188</b> LTSFP-1000BX-10KM Transceiver (WDM 1310) | ■ <b>8330-263</b> MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver     |
| ■ <b>8330-189</b> LTSFP-1000BX-10KM Transceiver (WDM 1550) | ■ <b>8330-265</b> MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver   |

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