

I(P)GS-L5408MGSFP

8 10/100/1000T + 4 1G/2.5G SFP (w/8 PoE bt/at/af) L2+
Industrial Managed Ethernet Switch; 24V/24TV/48V input
models



OVERVIEW

Lantech I(P)GS-L5408MGSFP is a high performance L2+ (All Gigabit) Ethernet switch with 8 10/100/1000T + 4 1G/2.5G SFP auto-sensing cage (w/8 PoE 802.3af/at ports) which provides L2 wire speed and advanced security function for network aggregation deployment.

Up to 8 PoE at/af ports w/advanced PoE management

Compliant with 802.3af/at standard, the PoE model is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices. It supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD hangs then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE ports can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Lantech OS3 Platform with complete L2 management and upgradable optional L3 & communication protocols

The switch runs Lantech OS3 platform which is powerful with complete Layer 2 management features and optional upgradable for future expansion, such as Layer 3 Lite, Layer 3, etc. To learn more about the Lantech OS3 Platform, please refer to [Lantech OS3/OS4 Software Datasheet](#)

Enhanced cybersecurity features with IEC 62443-4-1 certification

Lantech OS3 platform is designed with high standard of cybersecurity to prevent the threats from network attack such as DDoS attacks. To ensure the safety and reliability of communication networks, Lantech develops our products under strict international security standard and is certified with IEC 62443-4-1 network security standard. To learn more about Lantech cybersecurity software solution, please refer to [Lantech OS3/OS4 Software Datasheet](#)

Miss-wiring avoidance, node failure protection, Loop protection

The switch also embedded several features for strong and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, the switch being able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

User friendly GUI, Auto topology drawing, Enhanced Environmental Monitoring

The user-friendly UI, innovative auto topology drawing and topology demo makes the switch much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line. It supports enhanced environmental monitoring for actual input voltage, current, ambient temperature and total power load.

Editable configuration file; USB port for import/export configuration

The configuration file of the switch can be imported and edited with word processor for the following switches to configure with ease. The USB port can import/export the configuration from/to USB dongle and also to upgrade firmware from USB dongle. TFTP/HTTP firmware upgrade is supported.

Event log & message; 2DI + 2DO; Factory reset button

The switch provides 2DI and 2DO. When disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI can integrate the sensors for events and DO will trigger the outside alarm and switch will send alert information to IP network with email and traps. The factory reset button can restore the setting back to factory default.

PoE models: Dual power 24VI/24TVI/48V input, high PoE budget

The PoE model is designed with dual power supply at 9V~36VDC input (24VI model) or 16.8V~56VDC input (24TVI model) and can provide 80W (24V input) PoE budget. The 48V model can support dual power 44VDC~56VDC input and can have 240W PoE budget. The PoE galvanic isolation is built in for 24VI and 24TVI models.

Non PoE models: 24VI/24TVI input voltage selection

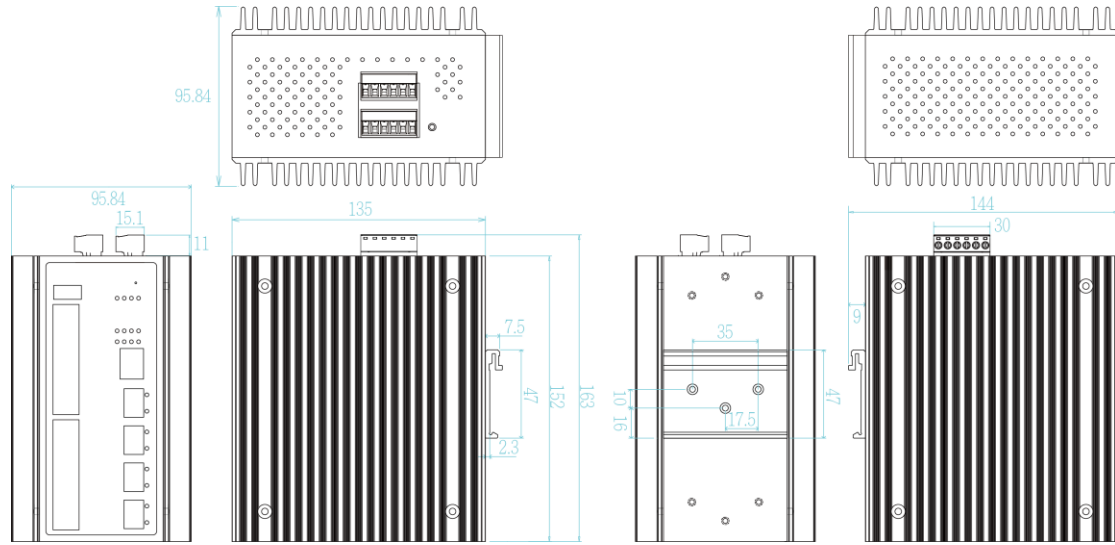
The non-PoE model is designed with dual power supply at 9V~36VDC input (24VI model) or 16.8V~56VDC input (24TVI model). The switch is able to work at dual 24VDC. The galvanic isolation is built in.

Industrial hardened design with high EFT and ESD protection

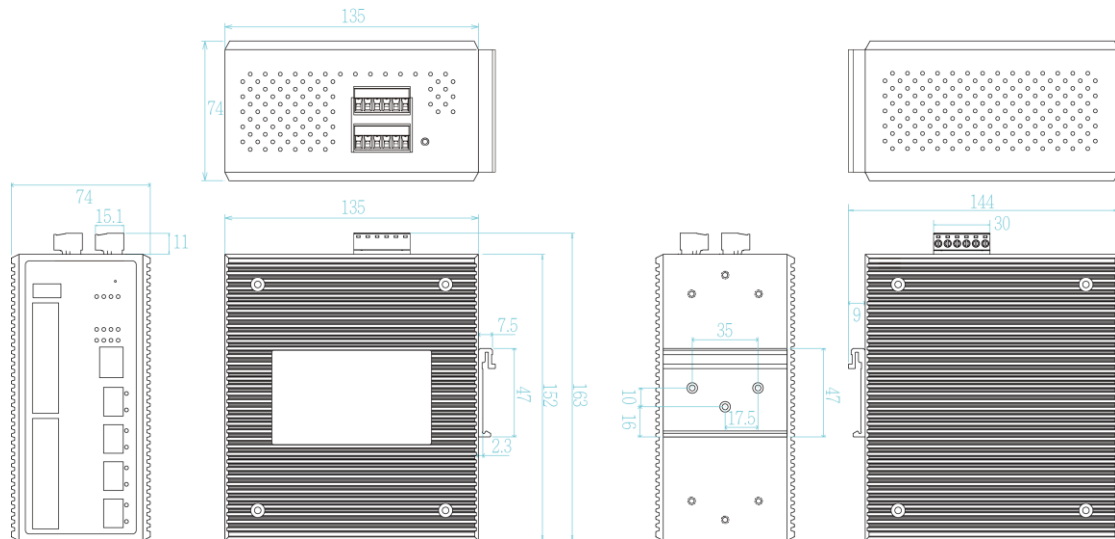
The switch features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. It is the best solution for Automation, transportation, autonomous vehicles, surveillance, Wireless backhaul, Semi-conductor factory applications. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

DIMENSIONS (unit=mm)

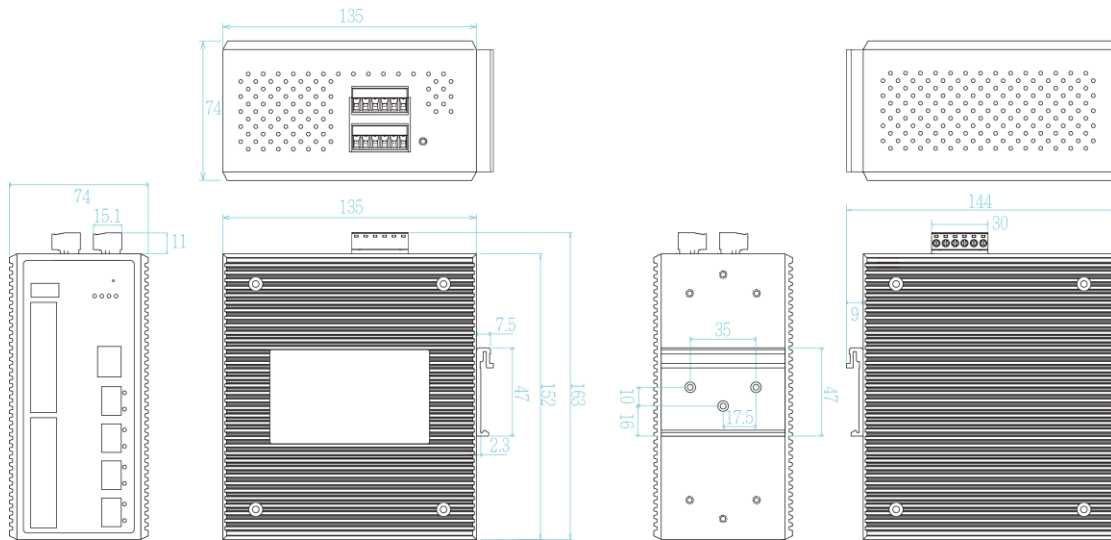
IPGS-L5408MGSFP (24VI/24TVI model)



IPGS-L5408MGSFP (48V model)



IGS-L5408MGSFP



SPECIFICATIONS

Hardware Specification

Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.3at/af Power over Ethernet (PoE model) IEEE802.3bt Power over Ethernet (Type 3, PoE -PBT model)	
Switch Architecture	Back-plane (Switching Fabric): 36Gbps	
Mac Address	16K MAC address table	
Jumbo frame	10KB	
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Mini-GBIC: 4 x 1G/2.5G SFP socket with DDMI RS-232 connector: RJ-45 type USB x 1 Power connector: 1 x 6-pole terminal block DIDO: 1 x 6-pole terminal block	
Network Cable	100Base-TX: 2-pair STP Cat. 5/ 5E/ 6 cable; EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair STP Cat5E/6 cable; 10GBaseT: 4-pair STP Cat6/6A/7 cable	
Optical Cable	1Gbps: 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) 2.5Gbps Multi-mode: 0 to 300 m, 850 nm (50/125 μm); Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm (9/125 μm); 0 to 40 km/ 80 km/ 100km, 1550 nm (9/125 μm) WDM 1Gbps:	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) WDM 2.5Gbps Single-mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm)
		LED
		DI/DO
		PoE Budget (PoE model)
		PoE pin assignment (PoE model)
		PoE Type (PoE model)
		Operating Humidity
		Operating Temperature
		Storage Temperature
		Power Supply

	Dual DC input, 9V~36V with PoE and Ethernet galvanic isolation (24VI model) Dual DC input, 16.8V~56V with PoE and Ethernet galvanic isolation (24TVI model) Non-PoE model: Dual DC input, 9V~36V with galvanic isolation (24VI model) Dual DC input, 16.8V~56V with galvanic isolation (24TVI model)
Power Consumption	Max. 12.32W exclude PoE load
Case Dimension	Metal case. IP-30, IPGS-L5408MGSFP (24VI/24TVI) 95.84 (W) x 135 (D) x 152 (H) mm IGS-L5408MGSFP; IPGS-L5408MGSFP (48V) 74 (W) x 135 (D) x 152 (H) mm
Weight	1400g (IGS-L5408MGSFP) 1400g (IPGS-L5408MGSFP, 48V) 1950g (IPGS-L5408MGSFP, 24VI/24TVI)
Installation	DIN Rail and Wall Mount** Design
EMI & EMS	EN55032:2020 EN55035:2020 FCC IEC / EN 61000-6-2:2019

	IEC / EN 61000-6-4:2019 IEC 61000-4-2:2008 IEC 61000-4-3:2020 IEC 61000-4-4:2012 IEC 61000-4-5:2017 IEC 61000-4-6:2015 IEC 61000-4-8:2009 EN 55011:2016 BS EN55032:2020 BS EN55035:2020 BS EN61000-4-2:2009 BS EN61000-4-3:2020 BS EN61000-4-4:2012 BS EN61000-4-5:2017 BS EN61000-4-6:2015 BS EN61000-4-8:2010
Safety	EN IEC 62368-1
MTBF	772,042 hrs (standards: IEC 62380)
Warranty	5 years
Software Specification	
Lantech OS3 Platform	Download Software Datasheet

*Future release
**Optional

ORDERING INFORMATION

- **IPGS-L5408MGSFP-48V-PBT.....P/N: 8350-85701**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt for 60W budget OS3 Managed Ethernet Switch; dual 44~56VDC input; -20°C to 60°C; IP30 housing
- **IPGS-L5408MGSFP-48V-PBT-E.....P/N: 8350-85711**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt for 60W budget OS3 Managed Ethernet Switch; dual 44~56VDC input; -40°C to 75°C; IP30 housing
- **IPGS-L5408MGSFP-24VI-PBT.....P/N: 8350-85722**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt OS3 Managed Ethernet Switch; dual 9~36VDC input w/ PoE galvanic isolation; -20°C to 60°C; IP30 housing
- **IPGS-L5408MGSFP-24VI-PBT-E.....P/N: 8350-85732**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt OS3 Managed Ethernet Switch; dual 9~36VDC input w/ PoE galvanic isolation; -40°C to 75°C; IP30 housing
- **IPGS-L5408MGSFP-24TVI-PBT.....P/N: 8350-85723**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt OS3 Managed Ethernet Switch; dual 16.8~56VDC input w/ PoE galvanic isolation; -20°C to 60°C; IP30 housing
- **IPGS-L5408MGSFP-24TVI-PBT-E.....P/N: 8350-85733**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at/bt OS3 Managed Ethernet Switch; dual 16.8~56VDC input w/ PoE galvanic isolation; -40°C to 75°C; IP30 housing
- **IPGS-L5408MGSFP-48V.....P/N: 8350-857**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 44~56VDC input; -20°C to 60°C; IP30 housing
- **IPGS-L5408MGSFP-48V-E.....P/N: 8350-8571**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 44~56VDC input; -40°C to 75°C; IP30 housing
- **IPGS-L5408MGSFP-24VI.....P/N: 8350-8573**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 9~36VDC input w/ PoE galvanic isolation; -20°C to 60°C; IP30 housing
- **IPGS-L5408MGSFP-24VI-E.....P/N: 8350-85731**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 9~36VDC input w/ PoE galvanic isolation; -40°C to 75°C; IP30 housing
- **IPGS-L5408MGSFP-24TVI.....P/N: 8350-85734**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 16.8~56VDC input w/ PoE galvanic isolation; -20°C to 60°C; IP30 housing
- **IPGS-L5408MGSFP-24TVI-E.....P/N: 8350-85735**
 8 10/100/1000T + 4 1G/2.5G SFP w/8 PoE 802.3 af/at OS3 Managed Ethernet Switch; dual 16.8~56VDC input w/ PoE galvanic isolation; -40°C to 75°C; IP30 housing
- **IGS-L5408MGSFP-24VI.....P/N: 8361-5424**
 8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 9V~36V input w/ galvanic isolation; -20°C to 60°C; IP30 housing
- **IGS-L5408MGSFP-24VI-E.....P/N: 8361-54231**
 8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 9V~36V input w/ galvanic isolation; -40°C to 75°C; IP30 housing

- **IGS-L5408MGSFP-24TVI.....P/N: 8361-54222**
8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 16.8V~56V input w/ galvanic isolation; -20°C to 60°C; IP30 housing
- **IGS-L5408MGSFP-24TVI-E.....P/N: 8361-54232**
8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 16.8V~56V input w/ galvanic isolation; -40°C to 75°C; IP30 housing

OPTIONAL ACCESSORIES

Software package

Please refer to the [software datasheet](#)

48~54VDC DIN Rail Power for 802.3at Applications

- **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)

Mini GBIC (SFP)

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|-----------------------|--|-----------------------|---|
| ■ 8330-162-V1 | MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-187-V1 | LTSFP-1000BX-20KM Transceiver (WDM 1550) |
| ■ 8330-163-V1 | MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-180-V1 | LTSFP-1000BX-40KM Transceiver (WDM 1310) |
| ■ 8330-165-V1 | MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-182-V1 | LTSFP-1000BX-40KM Transceiver (WDM 1550) |
| ■ 8340-0591-V1 | MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-181-V1 | LTSFP-1000BX-60KM Transceiver (WDM 1310) |
| ■ 8330-166-V1 | MINI GBIC 1000XD (LC/50km) Transceiver | ■ 8330-183-V1 | LTSFP-1000BX-60KM Transceiver (WDM 1550) |
| ■ 8330-169-V1 | MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-184-V1 | LTSFP-1000BX-80KM Transceiver (WDM 1490) |
| ■ 8330-167-V1 | MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-185-V1 | LTSFP-1000BX-80KM Transceiver (WDM 1550) |
| ■ 8330-170-V1 | MINI GBIC 1000EZ (120km) Transceiver | ■ 8330-262D-V1 | MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver |
| ■ 8330-168-V1 | MINI GBIC 1000T (100m) Transceiver | ■ 8330-263D-V1 | MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver |
| ■ 8330-188-V1 | LTSFP-1000BX-10KM Transceiver (WDM 1310) | ■ 8330-265D-V1 | MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver |
| ■ 8330-189-V1 | LTSFP-1000BX-10KM Transceiver (WDM 1550) | | |
| ■ 8330-186-V1 | LTSFP-1000BX-20KM Transceiver (WDM 1310) | | |

All SFP ended with D are with Diagnostic function

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