

## I(P)GS-L5408MGSFPR-2DCI

8 GT + 4 2.5G SFP (w/8 PoE af/at) Industrial Managed Ethernet  
Rackmount Switch; Dual DCI power inputs



### OVERVIEW

Lantech I(P)GS-L5408MGSFPR-2DCI is a high performance OS3 Industrial Ethernet switch with 8 10/100/1000T + 4 1G/2.5G SFP which provides advanced security function for network aggregation deployment. PoE model has 8 PoE 802.3af/at ports.

#### ***Up to 8 PoE at/af ports w/advanced PoE management; Ethernet power input galvanic isolation***

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 timetable. Each PoE ports can be Enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Galvanic isolation between power input and Ethernet power system, also the PoE galvanic isolation provides insulation between the power input to PoE Ethernet ports, preventing cabling and grounding incidents from damaging the Ethernet switch. The efficiency of the galvanically decoupled voltage converters can reach above 90%. (DCI model)

#### ***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; optional out-of-band management via 1000T Ethernet port***

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.

The console port can act as OOB\*\* management for remote service and management.

***Dual DCI power supplies***

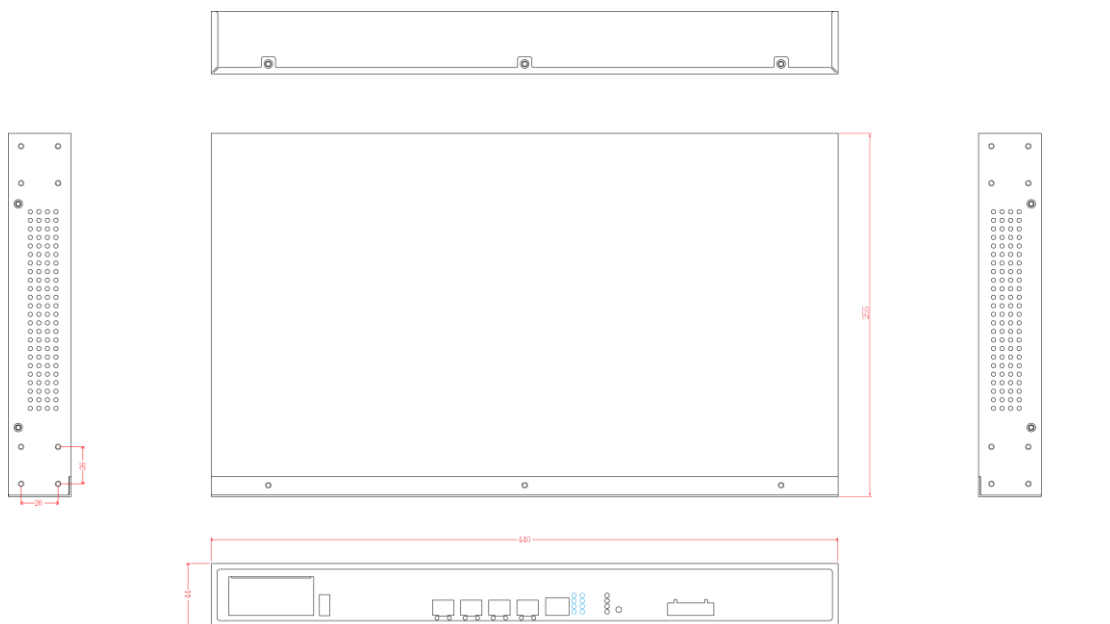
The switch is designed with dual galvanic isolated power supplies at 16.8~137.5VDC with terminal block.

***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, surveillance, Wireless backhaul, Semi-conductor factory applications. The switch can be used in extreme environments with an operating temperature range of -40°C to 70°C.

## DIMENSIONS (unit=mm)



\*Note: The component in blue color only appears on the model.

## SPECIFICATIONS

### Hardware Specification

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards           | IEEE802.3 10Base-T Ethernet<br>IEEE802.3u 100Base-TX<br>IEEE802.3ab 1000Base-T<br>IEEE802.3x Flow Control and Back Pressure<br>IEEE802.3ad Port trunk with LACP<br>IEEE802.1d Spanning Tree<br>IEEE802.1w Rapid Spanning Tree<br>IEEE802.1s Multiple Spanning Tree<br>IEEE802.3ad Link Aggregation Control Protocol (LACP)<br>IEEE802.1AB Link Layer Discovery Protocol (LLDP)<br>IEEE802.1X User Authentication (Radius)<br>IEEE802.1p Class of Service<br>IEEE802.1Q VLAN Tag<br>IEEE802.3at/af Power over Ethernet (PoE model) |
| Switch Architecture | Back-plane (Switching Fabric): 96Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mac Address         | 16K MAC address table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Jumbo frame         | 10KB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Connectors          | 10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function<br>Mini-GBIC: 4 x 1G/2.5G SFP socket with DDMI<br>RS-232 connector: RJ-45 type for CLI; optional 100Mbps Ethernet for management out-of-band feature<br>USB x 1<br>Power connector: 6-pin terminal block                                                                                                                                                                                                                                                               |
| Network Cable       | 100Base-TX: 2-pair STP Cat. 5/ 5E/ 6 cable;<br>EIA/TIA-568 100-ohm (100m)<br>1000Base-T: 4-pair STP Cat5E/6 cable<br>1G/2.5G Copper: 4-pair STP Cat6a/7 cable                                                                                                                                                                                                                                                                                                                                                                     |
| Optical Cable       | <b>1Gbps:</b><br>Multi-mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2 km, 1310 nm (50/125 μm)<br>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)<br><b>2.5Gbps</b><br>Multi-mode: 0 to 300 m, 850 nm (50/125 μm);<br>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)<br><br><b>WDM 1Gbps:</b><br>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)<br><b>WDM 2.5Gbps</b><br>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                            | Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green)<br>10/100/1000T Ethernet port: Link/Activity (Green)<br>1G/2.5G fiber: Link/Act (Orange)<br>PoE : Link/Act (Green) (PoE model)                                                                                                                                                                                    |
| Operating Humidity             | 5% ~ 95% (non-condensing)                                                                                                                                                                                                                                                                                                                                                            |
| Operating Temperature          | -40°C~70°C / -40°F~167°F                                                                                                                                                                                                                                                                                                                                                             |
| Storage Temperature            | -40°C~85°C / -40°F~185°F                                                                                                                                                                                                                                                                                                                                                             |
| Power Supply                   | Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply                                                                                                                                                                                                                                                                                                                          |
| PoE Budget (PoE model)         | 120W@54V<br>(50~56VDC input is recommended for 802.3at 30W applications)<br>Higher PoE budget can be applied upon request.<br>**                                                                                                                                                                                                                                                     |
| PoE pin assignment (PoE model) | M12 port #1~#8; support IEEE 802.3at/af End-point, Alternative A mode                                                                                                                                                                                                                                                                                                                |
| Power Consumption              | Max. 30.5W (For PoE model), 28W (For Non PoE model)                                                                                                                                                                                                                                                                                                                                  |
| Case Dimension                 | Metal case. IP-30, 440mm(W)x255mm(D)x44mm(H)                                                                                                                                                                                                                                                                                                                                         |
| Weight                         | 3.2kg                                                                                                                                                                                                                                                                                                                                                                                |
| Installation                   | Rack Mount Design                                                                                                                                                                                                                                                                                                                                                                    |

|           |                         |
|-----------|-------------------------|
| EMI & EMS | EN 50121-4:2016/A1:2019 |
|           | EN 50121-5:2017/A1:2019 |
|           | EN 55035:2017/A11:2020  |
|           | EN 55032:2015/A11:2020  |
|           | FCC Part 15, Subpart B  |
|           | ICES-003 Issue 7-2020   |
|           | IEC 61000-4-9:2016      |
|           | IEC 61000-4-10:2016     |
|           | IEC 61000-6-5:2015      |
|           | IEC 61000-6-2:2016      |
|           | IEC 61000-6-4:2018      |
|           | EN IEC 61000-6-2:2019   |
|           | EN 61000-6-4:2019       |

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
|                               | BS EN 55035:2017+A11:2020<br>BS EN 55032:2015+A1:2020 |
| Verifications                 | IEC 61850-3:2013<br>IEEE 1613:2009<br>EN 50155:2021   |
| MTBF                          | TBC (standards: IEC 62380)                            |
| Warranty                      | 5 years                                               |
| <b>Software Specification</b> |                                                       |
| Lantech OS3 Platform          | <a href="#">Download Software Datasheet</a>           |

\*Future release

\*\*Optional

## ORDERING INFORMATION

- **IPGS-L5408MGSFPR-2DCI .....P/N: 8350-85746**  
8 10/100/1000T + 4 1G/2.5G SFP OS3 w/8 PoE Managed Ethernet Switch; Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply with PoE galvanic isolation; -40°C to 70°C; IP30 Rackmount design
- **IGS-L5408MGSFPR-2DCI .....P/N: 8350-85741**  
8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply with galvanic isolation; -40°C to 70°C; IP30 Rackmount design
- **IPGS-L5408MGSFPR-2DCI .....P/N: 8350-85746OOB**  
8 10/100/1000T + 4 1G/2.5G SFP OS3 w/8 PoE Managed Ethernet Switch; Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply with PoE galvanic isolation; -40°C to 70°C; IP30 Rackmount design, w/out-of-band management feature
- **IGS-L5408MGSFPR-2DCI .....P/N: 8350-85741OOB**  
8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply with galvanic isolation; -40°C to 70°C; IP30 Rackmount design, w/out-of-band management feature

## OPTIONAL ACCESSORIES

### Software package

Please refer to the [software datasheet](#)

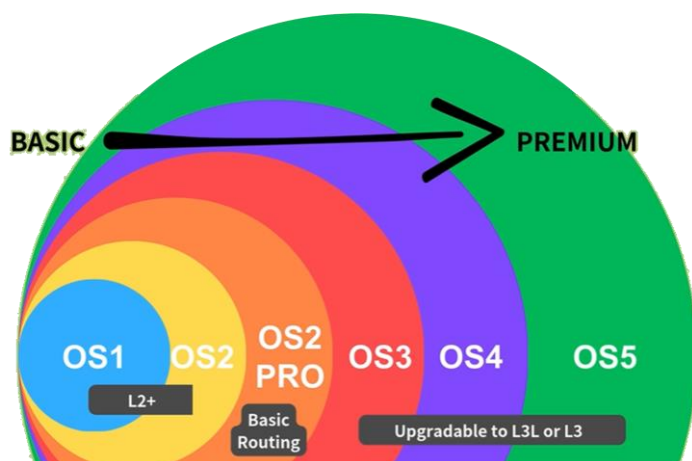
### Mini GBIC (SFP)

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

All SFP ended with D are with Diagnostic function

## Managed Switch OS Generations

We offer a comprehensive range of managed switches, from OS1 and OS2 with rich L2+ management features, to OS2 PRO with basic routing functionality, and OS3, OS4, and OS5, which can be upgraded with optional Layer 3 Lite or Layer 3 capabilities to meet diverse customer needs. Note: Model differences include both software features and hardware specifications.

**[LEARN MORE]**

- [OS2PRO Generation](#)
- [OS3/OS4 Generation](#)
- [OS5 Generation](#)

**[CHECK THE DIFFERENCES]**

- [Generation Comparison Table](#)

**Lantech Communications Global Inc.**  
www.lantechcom.tw  
info@lantechcom.tw

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