

I(P)GS-L5408MGSFPR-DCI

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-DCI 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 isolated power supplies at 16.8~137.5VDC (For PoE model) and 12~56VDC (For the Non-PoE model) with terminal block.

Industrial hardened design with high EFT and ESD protection

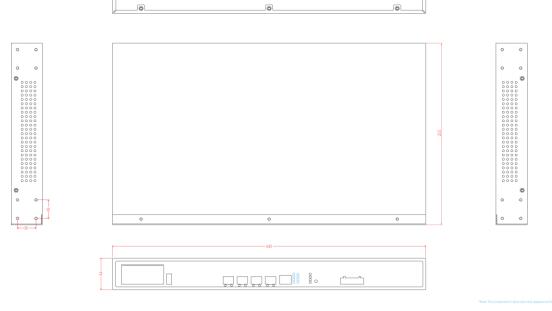
The switch features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control.

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.

OS3 Platform Industrial (PoE) Central Managed Ethernet Switches



DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware Specification

Hardware Specification				(9/125 µm)
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3 u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3ak Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1d Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol			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 /1550 nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm)
Switch Architecture	(LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag IEEE802.3at/af Power over Ethernet (PoE model) Back-plane (Switching Fabric): 96Gbps		LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) 10/100/1000T Ethernet port: Link/Activity (Green) 1G/2.5G fiber: Link/Act (Orange) PoE : Link/Act (Green) (PoE model)
Mac Address	16K MAC address table		Operating	5% ~ 95% (non-condensing)
Jumbo frame	10KB		Humidity	1000 7000 / 1005 10705
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 for CLI; optional 100Mbps Ethernet for management out-of-band feature USB x 1 Power connector: 6-pin terminal block		Operating Temperature Storage Temperature Power Supply	-40°C-70°C / -40°F-167°F -40°C-85°C / -40°F-185°F Dual DCI power inputs, 16.8~137.5VDC with PoE and Ethernet galvanic isolation (for PoE model) 12~56VDC with Ethernet galvanic isolation (For
Network Cable Optical 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 1G/2.5G Copper: 4-pair STP Cat6a/7 cable 1Gbps: Multi-mode: 0 to 550 m, 850 nm (50/125 μm); 0		PoE Budget (PoE model)	Non-PoE model) 120W@54V (50-56VDC input is recommended for 802.3at 30W applications) Higher PoE budget can be applied upon request.
	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		PoE pin assignment (PoE model)	M12 port #1~#8; support IEEE 802.3at/af End- point, Alternative A mode
	km, 1550 nm (9/125 μm) 2.5Gbps		Power Consumption	Max. 30.5W (For PoE model), 28W (For Non PoE model)
	Multi-mode: 0 to 300 m, 850 nm (50/125 μm); Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm		Case Dimension	Metal case. IP-30, 440mm(W)x255mm(D)x44mm(H)
	(9/125 µm); 0 to 40 km/ 80 km/ 100km, 1550 nm		Weight	3.2kg

Datasheet Version 2.54

www.lantechcom.tw | info@lantechcom.tw



OS3 Plafform Industrial (PoE) Central Managed Ethernet Switches



Installation	Rack Mount Design			EN 61000-6-4:2019
EMI & EMS	EN 50121-4:2016/A1:2019			BS EN 55035:2017+A11:2020
	EN 50121-5:2017/A1:2019			BS EN 55032:2015+A1:2020
	EN 55035:2017/A11:2020		Verifications	IEC 61850-3:2013
	EN 55032:2015/A11:2020			IEEE 1613:2009
	FCC Part 15, Subpart B			EN 50155:2021
	ICES-003 Issue 7-2020		MTBF	TBC (standards: IEC 62380)
	IEC 61000-4-9:2016		Warranty	5 years
	IEC 61000-4-10:2016		Software Specification	
	IEC 61000-6-5:2015	Lantech OS3 Platform	Lantech OS3	Download Software Datasheet
	IEC 61000-6-2:2016		Platform	
	IEC 61000-6-4:2018			*Future release
	EN IEC 61000-6-2:2019			**Optional

ORDERING INFORMATION

- IPGS-L5408MGSFPR-2DCIP/N: 8350-85746 8 10/100/1000T + 4 1G/2.5G SFP OS3 w/8 PoE Managed Ethernet Switch; dual 16.8~137.5VDC power input with PoE galvanic isolation; -40°C to 70°C; IP30 Rackmount design
- IGS-L5408MGSFPR-2DCIP/N: 8350-85741 8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 12-56VDC power input with galvanic isolation; -40°C to 70°C; IP30 Rackmount design
- IPGS-L5408MGSFPR-2DCIP/N: 8350-85746OOB 8 10/100/1000T + 4 1G/2.5G SFP OS3 w/8 PoE Managed Ethernet Switch; dual 16.8~137.5VDC power input with PoE galvanic isolation; -40°C to 70°C; IP30 Rackmount design, w/out-of-band management feature
- IGS-L5408MGSFPR-2DCIP/N: 8350-8574100B 8 10/100/1000T + 4 1G/2.5G SFP OS3 Managed Ethernet Switch; dual 12~56VDC power input 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)

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 1000EZX (120km) Transceiver	8330-262D-V1	MINI GBIC 2.5G 850nm VCSEL (LC/0.3km)
8330-168-V1	MINI GBIC 1000T (100m) Transceiver	Transceiver	
8330-188-V1	LTSFP-1000BX-10KM Transceiver (WDM 1310)	8330-263D-V1	MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver
8330-189-V1	LTSFP-1000BX-10KM Transceiver (WDM 1550)	8330-265D-V1	MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver
8330-186-V1	LTSFP-1000BX-20KM Transceiver (WDM 1310)		

All SFP ended with D are with Diagnostic function

Lantech Communications Global Inc. www.lantechcom.tw

info@lantechcom.tw

© 2024 Copyright Lantech Communications Global Inc. all rights reserved. The revise authority rights of product specifications belong to Lantech Communications Global Inc. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.