

I(P)GS-5400-2P

4 Modular Slots L2+ Industrial Managed (PoE at) Ethernet Switch

- High-density 28 x Gigabit Ethernet L2+ managed (PoE at/af) Ethernet switch
- Enhanced G.8032 ring protection < 20ms for single ring. Supports auto mode, enhanced mode, train mode, multi-VLAN and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI /RSTP; support MRP ring**
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, TACACS+, QinQ**, SMS**
- Protocol based VLAN** ; IPv4/IPv6 Subnet based VLAN**
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI
- Support relay contact & environmental monitoring
- USB slot for edited restoration and auto backup



OVERVIEW

Lantech I(P)GS-5400-2P is a high performance L2 + managed industrial Ethernet switch which provides L2 wire speed and advanced security function for network aggregation and backbone deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports train ring, enhanced mode, multiple VLAN mode with easy configuration. The comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, TACACS+, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ** are supported and also required in large network. It also supports Cisco Discovery Protocol (CDP) for Ciscoworks to detect the switch info and show on L2 map topology.

The highly flexible modular design consisting of maximum 24x Gigabit T+4xDual SFP, 24x Giga PoE at/af (IPGS-5400-2P)+4xDual SFP, 28xGigabit/100M SFP, 18x100M ST/SC + 4 Gigabit SFP covers the widest deployment of applications.

Enhanced G.8032 ring, 16 MSTI MSTP; Optional MRP ring

Lantech I(P)GS-5400-2P features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering multicast packets. It also supports various ring topologies that covers multi-chain (under enhanced ring), train ring, basic ring, multiple-VLAN ring and auto-ring by easy setup than others. The innovative auto-Ring configurator (auto mode) can calculate owner and neighbor in one step. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 16 MSTI.

Optional MRP (Media Redundancy Protocol) can be supported for industrial automation networks.

QoS by VLAN for legacy device

QoS by VLAN can allow switch to tag QoS by VLAN regardless the devices acknowledge QoS or not in which greatly enhance the bandwidth management in a network.

QinQ**, QoS QinQ** and GVRP** supported

It supports the QinQ**, QoS QinQ**, GVRP** for large VLAN segmentation.

Reliable network protection, node failure protection

The I(P)GS-5400-2P also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech I(P)GS-5400-2P is able to alert with the LED indicator and send out an email, traps or a SMS** text. Repowered auto ring restore function (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. This feature prevents the broken ring and keep ring alive without any re-configuration needed. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

DHCP option 82 & Port based, Mac based DHCP, Option66, IPv6 DHCP server**

DHCP server can assign dedicated IP address by MAC or by

port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. For the ending device which need to download file from TFTP server, DHCP Option66 server can offer IP address of TFTP server to DHCP client. Optional IPv6 address resolution for DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-5400-2P much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Editable configuration file; InstaView** for mass deployment

The configuration file of Lantech I(P)GS-5400-2P can be exported and edited with word processor for the other switches configuration with ease. The factory reset button can restore the setting back to factory default.

The built-in watchdog design can automatically reboot the switch when CPU is found dead.

With optional InstaView, the configuration files can be mass backup, mass-editable deployed and auto upgrading firmware in batch make maintenance easy.

Environmental monitoring for switch inside information

The environmental monitoring can detect switch overall temperature, total PoE load, voltage and current where can send the SNMP traps, email and SMS** alert when abnormal. The PoE modules support advanced PoE management including PoE detection and scheduling. PoE detection can

detect if the connected PD is hang up then restart the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. It also supports per-port PoE status including current, voltage, watt and temperature information.

Event log & message; 2 DI + 2DO

In case of event, the I(P)GS-5400-2P is able to send an email & SMS** text message to pre-defined addresses as well as SNMP Traps out immediately. It 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 alarm while sending alert information to IP network with email and traps.

Various power input, high ESD protection

Lantech I(P)GS-5400-2P chassis and modules are designed for easy maintenance and installation; It also supports dual power supplies (DC12~48V/ isolated 36~75VDC) and (isolated 85~264VAC/140~370VDC) to increase the network reliability. It also supports terminal block for connecting DC 48V PoE power source (IPGS-5400-2P).

Lantech I(P)GS-5400-2P features high reliability and robustness withstanding extensive EMI/RFI phenomenon, inductive load switching, high ESD ($\pm 8000V$ ESD/ $\pm 3000V$ EFT), high fault current environment usually found in Steel automation, Mining and Process control etc. IGS-5400-2P-E can run under operational temperature ranging from -40°C~75°C for the harsh and critical environment.

FEATURES & BENEFITS

System Interface/Performance

- maximum 24x Gigabit T+4 Dual SFP, 24x Giga PoE at/af +4Dual SFP(IPGS-5400-2P), 28xGigabit/100M SFP, 18x100M ST/SC + 4 Gigabit SFP
- 16K MAC Address Table
- Backplane : 56Gbps
- Dual Power Supplies for isolated 1600V DC(36V~75V)
- Dual Power Conversions for isolated ± 3000 V (85V~264VAC/100V~370VDC)
- Dual power supply terinal block for non-isolated power DC(12V~57V)
- Terminal block for PoE power source(DC48V)for IPGS-5400-2P
- Various modules available incl. Gigabit/100M SFP ; Gigabit T ;PoE at/af Giga T(up to 30W@) ; 100MST/SC modules
- FAN less design

10KB Jumbo frame

User friendly UI, Auto topology drawing, topology demo, Complete CLI supported

IP v6/v4 supported

IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP VLAN redundancy with 16 MSTI

Enhanced G.8032 Ring protection in 20ms < 256

switches

- Support various ring/chain topologies, including train ring, enhanced ring, basic ring, auto ring & multiple VLAN ring
- Enhanced G.8032 ring configuration with ease
- Auto ring configuration(auto mode) for single ring
- Ring covers multicast on different ports

DDM to support SFP diagnostic function***

- Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance

256 groups MSTP over VLAN

4K 802.1Q VLAN, Port based VLAN, GVRP**, QinQ**, QoS QinQ**

Port Trunk with LACP 14 trunks with automatic link failover

LACP link aggregation to add bandwidth

QoS (Quality of Service)

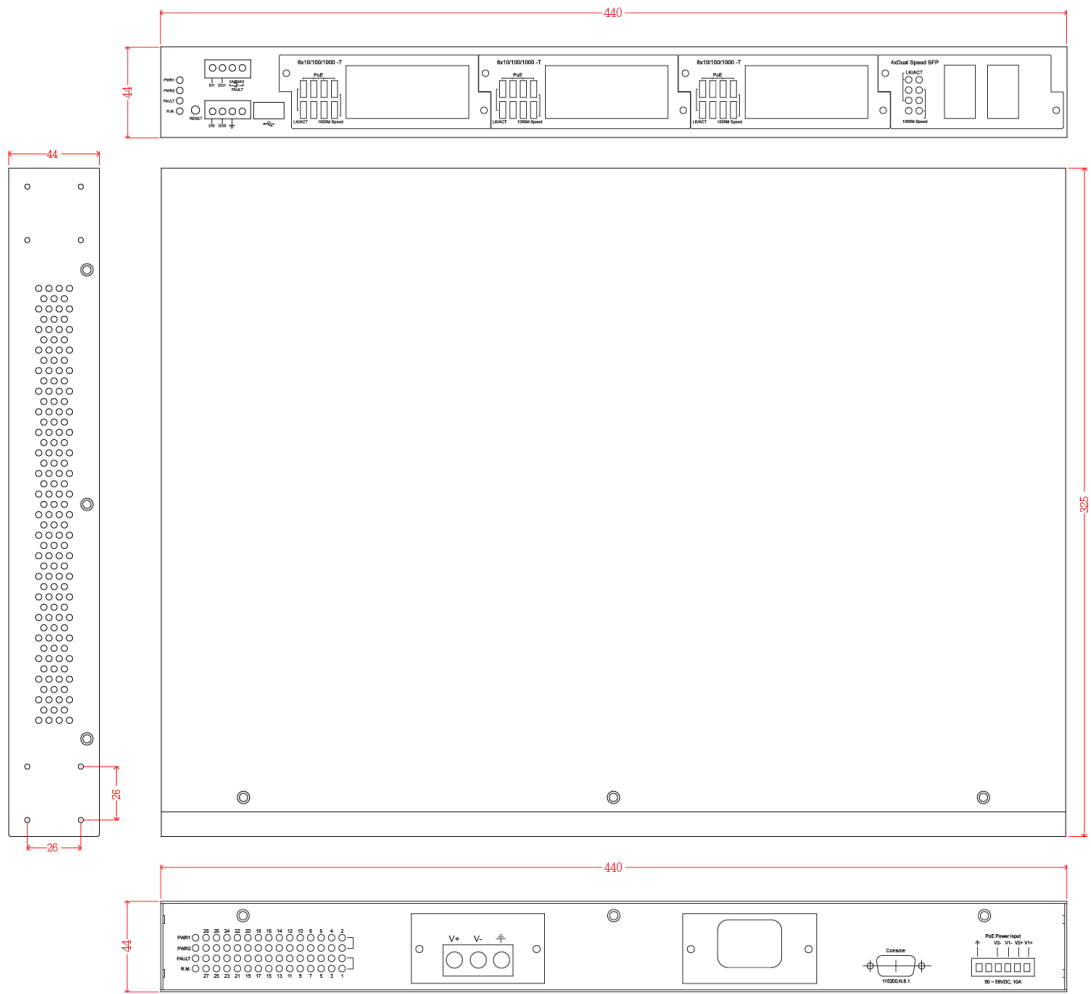
- Supports IEEE 802.1p CoS
- Per port provides 8 priority queues
- Port-base, Tag-base and TOS Priority
- Strict priority and WRR

Security

- SSL/SSH/INGRESS/EGRESS ACL L2/L3
- Port Security: MAC address entries/Filter/MAC-Port binding
- IP Security: IP address security management to

- prevent unauthorized intruder.*
 - *Management access control with priority*
 - *Login Security: IEEE802.1X/RADIUS*
 - *HTTPS for secure access to the web interface*
- **Miss-wiring avoidance**
 - *LED indicator*
- **Repowered auto ring restore (node failure protection)**
 - *Ensure the switches in a ring to survive after power breakout is back*
 - *The status can be shown in NMS when each switch is back*
- **SNTP,NTP supported**
- **Multicast static route for non- IGMP camera to prevent flooding; IGMP router port to assign query in ring for reversed multicast video flow**
- **IGMP v1,v2,v3 and Proxy for Multimedia Application; GMRP***
- **IGMP router port to select another Query mode and for reversed multicast video flow**
- **IGMP static route for reversed IGMP flow to bind with port for IP surveillance application**
- **Supports IEEE802.1ab LLDP, Cisco CDP**
- **DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66; IPv6 address resolution for DHCP server****
- **Mac based DHCP server to assign IP address that includes dumb switches in DHCP network**
- **Bandwidth Control**
 - *Ingress Packet Filter and Egress Rate Limit*
 - *Broadcast/Multicast Packet Filter Control*
- **System Event Log, Email alert, SMS**(mobile text) and SNMP Trap for alarm support**
- **Environmental sensor to detect temperature, voltage, current, watts and total PoE load that will send out SNMP traps , SMS** and emails if there is abnormal events**
- **Configuration backup and restoration**
 - *Supports editable configuration file for system quick installation*
 - *InstaView** for centralized configuration deployment, backup & upgrade*
- **TFTP/SFTP**/HTTP firmware upgrade; Lantech™ InstaView** for multiple upgrade**
- **Reset / Factory default button to restore factory setting**
- **Watch dog design to reboot switch if CPU is found dead**
- **Provides EFT protection ±3000 VDC for power line**
- **Supports ±8000 VDC Ethernet ESD protection**
- **Galvanic isolation on -HV and -LDC models**
- **2 DI/DO and 1 relay contact alarm**

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification		Temperature	-E model: -40°C ~75°C
IEEE Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z Gigabit Fiber IEEE 802.3x Flow Control Capability ANSI/IEEE 802.3 Auto-negotiation IEEE 802.1Q VLAN IEEE 802.1p Class of Service IEEE 802.1X Access Control IEEE 802.1D Spanning Tree IEEE 802.1w Rapid Spanning Tree IEEE 802.1s Multiple Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1x User Authentication (Radius) IEEE 802.3at/af PoE (IPGS-5400-2P)	Storage Temperature	-40°C ~85°C
Switch Architecture	Back-plane (Switching Fabric): 56Gbps	EMI	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN55032 Class A, CE EN55024
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	MTBF	572,361hrs
MAC Address	16K MAC address table	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Jumbo frame	10KB	Warranty	5 years
Connectors	Max. 28 10/100/1000T RJ-45 with auto MDI/MDI-X function Max 28 100M Mini-GBIC : SFP sockets Max 28 1000M Mini-GBIC : SFP sockets RS-232 console: Female DB-9 USB for automatic backup and edited restoration configuration	Software Specification	
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red) ,R.M (Green) Link/Activity (Green), Full duplex/collision(Yellow), MINI GBIC (Link/Activity)(Green)	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI Management
Power Supply	2 X VAC/VDC isolated 3000V 85V~264VAC/100~370VDC 2x VDC isolated 1600V 36~75VDC Dual input for 12V~57VDC PoE power dual input for 45~57VDC (55V input is recommended for 802.3at 30W applications)(IPGS-5400-2P)	SNMP MIB	RFC 1215 Traps MIB*, RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 VLAN MIB*, Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*, Bridge MIB, LLDP MIB RSTP MIB* Private MIB
Power Consumption	Full load: 33W/ Unload: 13W	VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP**, QinQ**, QoS QinQ**, Protocol based VLAN** ; IPv4/IPv6 Subnet based VLAN**
PoE Budget(IPGS-5400-2P)	Max. 720W at rear side with dual 45~57VDC input (55V input is recommended for 802.3at 30W applications)	Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V	LLDP	Support LLDP to allow switch to advise its identification and capability on the LAN
DI/DO	2 Digital Input (DI) : Level 0: -30~2V / Level 1: 10~30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA	CDP	Cisco Discovery protocol for topology mapping
Case Dimension	19" Metal case, IP-30; 440mm(W)x325mm(D)x44mm(H)	ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring enhanced mode) Support various ring/chain topologies Includes train ring, auto ring, basic single ring, enhanced ring, multiple-VLAN ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection
Operating Humidity	5%~95% (Non-condensing)	User friendly UI	<ul style="list-style-type: none"> ■ Auto topology drawing ■ Topology demo ■ Auto configuration for G.8032* ■ DDM threshold monitoring with dB values*** ■ Complete CLI supported
Operating	Standard: -20°C ~60°C	PoE Management	<ul style="list-style-type: none"> ■ PoE Detection to check if PD is hang up then restart the PD ■ PoE Scheduling to On/OFF PD upon routine time table ■ Per-port PoE status including current, voltage, watt and temperature
		Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 16 MSTI
		Quality of Service	The quality of service determined by port, Tag and IPv4 Type of service, IPv4 Differentiated Services Code Points - DSCP
		Class of Service	Support IEEE802.1p class of service, per port

	provides 8 priority queues		failure protection)
QoS by VLAN	Tagged QoS by VLAN for all devices in the network		■ Loop protection
IP Security	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.	System Log	Support System log record and remote system log server
Port Mirror	Support 3 mirroring types: *RX, TX and Both packet*	SMTP/Text SMS**	Supports SMTP Server and 8 e-mail accounts for receiving event alert; can send SMS** text alert via mobile
IGMP	Support IGMP snooping v1,v2,v3; Supports IGMP static route; 1024 multicast groups; IGMP router port ; IGMP query; GMRP**	SNMP Trap	Up to 10 trap stations; trap types including: <ul style="list-style-type: none"> ● Device cold start ● Authorization failure ● Port link up/link down ● DI/DO open/close ● Typology change(ITU ring) ● Power failure ● Environmental abnormal
Static MAC-Port Bridge	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application	DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 (Client & Server)/Port based DHCP; DHCP Option 66; IPv6 address resolution for DHCP server**
Bandwidth Control	Support ingress packet filter and egress packet limit. The egress rate control supports all of packet type, the limit rates are 0~100Mbps. Ingress filter packet type combination rules are Broadcast/Multicast/Flooded Unicast packet, Broadcast/Multicast packet, Broadcast packet only and all types of packet. The packet filter rate can be set from 0 to 100Mbps The packet filter rate can be set an accurate value through the pull-down menu for the ingress packet filter and the egress packet limit.	Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
Network Security	Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder. 802.1X access control for port based and MAC based authentication/MAC-Port binding Management access control with priority Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface TACACS+* for Authentication	DNS	Provide DNS client feature and support Primary and Secondary DNS server.
Flow Control	Support Flow Control for Full-duplex and Back Pressure for Half-duplex	SNTP	Support SNTP to synchronize system clock in Internet
Protection	<ul style="list-style-type: none"> ■ Miss-wiring avoidance ■ Repowered auto ring restore(node 	Environmental Monitoring	Internal sensor to detect temperature, voltage and current and send SNMP traps, SMS** and emails if any abnormal events
		Factory reset button & watch dog design	Factory reset button to restore back to factory default settings. Watch dog design can reboot switch automatically under certain circumstances
		Firmware Update	Supports TFTP/SFTP** firmware update, TFTP backup and restore; HTTP firmware upgrade; Lantech™ InstaView** for multiple upgrade
		USB Configuration backup and restore	Supports text editable configuration file for system quick installation to backup and restore USB dongle for automatic back up and editable restore. Optional InstaView for mass backup, editing configuration and upgrade

*Future Release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

- **IGS-5400-2P-HVP/N: 8380-100**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket; -20°C to 60°C
- **IGS-5400-2P-LDCP/N: 8380-101**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -20°C to 60°C
- **IPGS-5400-2P-HVP/N: 8380-130**
4 Modular Slots L2 plus Industrial PoE Ethernet Switch Chassis
Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C
- **IPGS-5400-2P-LDCP/N: 8380-131**
4 Modular Slots L2 plus Industrial PoE Ethernet Switch Chassis
Built-in 1x isolated DC 36~75VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C
- **IGS-5400-2P-ACP/N: 8380-116**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x isolated AC85~264VAC IEC320 power conversion + 1x additional power socket; -20°C to 60°C

- **IPGS-5400-2P-ACP/N: 8380-136**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x isolated AC85~264VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C
- **IGS-5400-2P-DCP/N: 8380-118**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x DC 12~57VDC power supply + 1x additional power socket; -20°C to 60°C
- **IPGS-5400-2P-DCP/N: 8380-138**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x DC 12~57VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -20°C to 60°C
- **IGS-5400-2P-HV-E.....P/N: 8380-1001**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket; -40°C to 75°C
- **IGS-5400-2P-LDC-EP/N: 8380-1011**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -40°C to 75°C
- **IPGS-5400-2P-HV-EP/N: 8380-1301**
4 Modular Slots L2 plus Industrial PoE Ethernet Switch Chassis
Built-in 1x isolated AC/DC 85~264VAC/100V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C
- **IPGS-5400-2P-LDC-EP/N: 8380-1311**
4 Modular Slots L2 plus Industrial PoE Ethernet Switch Chassis
Built-in 1x isolated DC 36~75VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C
- **IGS-5400-2P-AC-EP/N: 8380-1161**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x isolated AC85~264VAC IEC320 power conversion + 1x additional power socket; -40°C to 75°C
- **IPGS-5400-2P-AC-EP/N: 8380-1361**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x isolated AC85~264VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C
- **IGS-5400-2P-DC-EP/N: 8380-1181**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x DC 12~57VDC power supply + 1x additional power socket; -40°C to 75°C
- **IPGS-5400-2P-DC-EP/N: 8380-1381**
4 Modular Slots L2 plus Industrial Ethernet Switch Chassis
Built-in 1x DC 12~57VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C

Modules for Slot 1-3 Note: the modules will be factory pre-installed.

- **8xGIGA T Module.....P/N: 8380-105**
8x 10/100/1000T Module; -40°C to 75°C
- **8xGIGA T-PoE at/af Module.....P/N: 8380-114**
8x 10/100/1000T PoE at/af Module; -40°C to 75°C
- **8x SFP Module.....P/N: 8380-106**
8x Dual Speed SFP module for 100M SFP or Gigabit SFP; -40°C to 75°C
- **4x GIGA T + 4x SFP Module.....P/N: 8380-107**
4x 10/100/1000T + 4 x 100/1000M Dual Speed SFP Module; -40°C to 75°C

Modules for Slot 4 Note: the modules will be factory pre-installed.

- **4x SFP Module.....P/N: 8380-115**
4x Dual Speed SFP module for 100M SFP or Gigabit SFP; -40°C to 75°C

OPTIONAL ACCESSORIES

Power

EOTH000701

Isolation Power 85-264VAC, 100-370VDC 1.5A , 47-63HZ



EOTH000702

Isolation Power 36-75VDC, 2.5A



EOTH000703

Power 85-264VAC IEC320 socket, 1.5A , 47-63HZ



EOTH000704

Power Input Module 12-57VDC, 2.5A



Mini GBIC (SFP)

- | | | | |
|--------------------|--|-------------------|---|
| ■ 8330-162X | MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-187 | 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550) |
| ■ 8330-163X | MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-180 | 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310) |
| ■ 8330-165X | MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-182 | 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550) |
| ■ 8340-0591 | MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-181 | 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310) |
| ■ 8330-166 | MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-183 | 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550) |
| ■ 8330-169 | MINI GBIC 1000XD (LC/SM/60KM) Transceiver | ■ 8330-184 | 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490) |
| ■ 8330-167 | MINI GBIC 1000ZX (LC/SM/80KM) Transceiver | ■ 8330-185 | 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550) |
| ■ 8330-170 | MINI GBIC 1000EZ (LC/SM/120KM) Transceiver | ■ 8330-071 | 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver |
| ■ 8330-168 | MINI GBIC 10/100/1000T (100m) Transceiver | ■ 8330-072 | 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver |
| ■ 8330-060 | MINI GBIC 100Base (LC/MM/2KM) Transceiver | ■ 8330-069 | 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver |
| ■ 8330-065 | MINI GBIC 100Base (LC/MM/5KM) Transceiver | ■ 8330-068 | 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver |
| ■ 8330-061 | MINI GBIC 100Base (LC/SM/30KM) Transceiver | ■ 8330-080 | 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver |
| ■ 8330-197 | 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) | ■ 8330-082 | 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver |
| ■ 8330-198 | 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) | ■ 8330-081 | 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver |
| ■ 8330-195 | 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310) | ■ 8330-083 | 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver |
| ■ 8330-196 | 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550) | ■ 8330-084 | 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver |
| ■ 8330-188 | 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310) | ■ 8330-085 | 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver |
| ■ 8330-189 | 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550) | ■ 8330-191 | Dual Speed SFP 100M/1000M-LX 10KM Transceiver |
| ■ 8330-186 | 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310) | | All SFP# ended with D are with DDM function |

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