

# I(P)GS-5400-2P

### 4 Modular Slots L2+ Industrial Managed (PoE at) Switch w/PTP V2

- High-density 28 x Gigabit Ethernet L2+ managed (PoE at/af) switch
- Enhanced G.8032 ring protection < 20ms with auto mode, enhanced mode, train mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 16MSTI / RSTP
- Supports PTP IEEE1588 v2 two-step and built-in RTC(Real Time Clock)
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82 for Port & VLAN based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, IPv6, SMS
- Miss-wiring avoidance & Repowered auto ring restore
- User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values\*\*\*; Complete CLI
- Support relay contact & environmental monitoring



















### **OVERVIEW**

Lantech I(P)GS-5400-2P is a high performance L2 + managed industrial 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 including dynamic coupling ring, enhanced mode for easy configuration, comprehensive QoS, QoS by VLAN, advanced security including INGRESS/EGRESS ACL L2/L3, SSH/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ\* (double tag VLAN) which are important features required in train and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP 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 with PTP v2 function covers the widest deployment of applications.

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 double ring, multi-chain (under enhanced ring), train ring, basic 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 RSTP over VLAN for redundant links with 16 MSTI. The ITU G.8032 Ring and RSTP can be co-existed in the same switch with different ports for the most flexible 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 and relay agent function (port & VLAN based DHCP distribution) can offer the same IP address on port base or VLAN base where there is need to replace the new device connecting to Lantech switches to avoid any network disruption. The built-in DHCP Option 82 server offers the convenience of policy setting on the switch. Mac based DHCP server function assigns an IP address according to its MAC address to include dumb switches in DHCP network.

The user friendly UI, innovative auto topology drawing and topology demo makes I(P)GS-5400-2P much easier to get hands-on. The I(P)GS-5400-2P supports DMI interface that can correspond with DDM SFPs (Digital diagnostic monitor) to display the five parameters in Lantech's UI, including optical output power, input power, temperature, laser bias current and transceiver supply voltage\*\*\*. The TX power/RX power raw data is automatically converted to dB values for installer, making it easier to calculate the fiber distance. Complete CLI support allows professional setting.

Lantech I(P)GS-5400-2P configuration file can also be exported in text file so that it can be edited and configured back to switch



with ease for mass deployment. The factory reset button can restore the setting back to factory default and built-in watchdog design can automatically reboot the switch when CPU is found dead. The USB slot allows user to backup/ restore configuration.

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.

Lantech I(P)GS-5400-2P model features hardware-based PTP IEEE1588 v2 two-step function which can allow each modules Gigabit, PoE or 100FX to synchronize the network with precise accuracy. It has RTC (Real Time Clock) inside that can keep track of current time.

The environmental monitoring can detect switch temperature, 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.

The I(P)GS-5400-2P DIDO function can support additional open/close physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the switch was moved or stolen. In case of events, the I(P)GS-5400-2P will immediately send an email to pre-defined addresses as well as SNMP Traps out. It provides 2DO while disconnections of the specific port was detected and relay contact will activate the alarm. 2 DI can integrate the sensors into the auto alarm system and transfer the alarm information to IP network with email, SMS and SNMP.

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 85~265VAC/100~370VDC) 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 (±8000V ESD/ ±4000V 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 ±4000 V (85V~265VAC/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 PTP modules
- · FAN less design
- 10KB Jumbo frame supported on all ports
- User friendly UI, Auto topology drawing, topology demo, Complete CLI supported
- IP v6/v4 supported
- Enhanced G.8032 Ring protection in 20ms < 256 switches
  - Support various ring/chain topologies, including dynamic coupling ring
  - · Enhanced G.8032 ring configuration with ease
  - Auto ring configuration(auto mode) for single ring
  - · Co-exist with RSTP 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

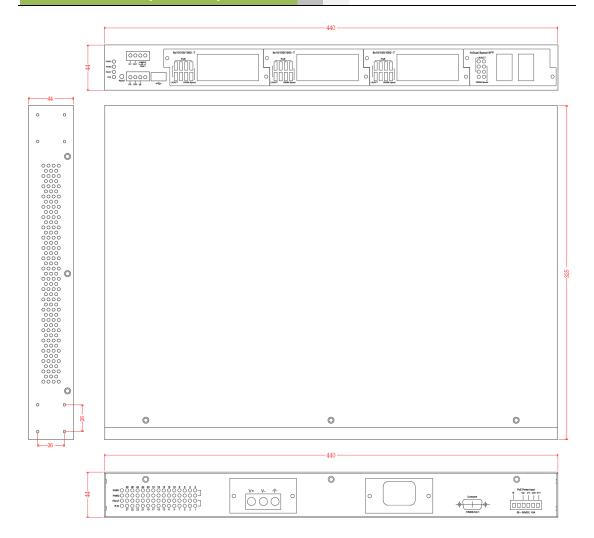
- 256 groups MSTP over VLAN
- VLAN
  - · 4K 802.1Q Vlan, Port Based VLAN, GVRP\*\*, QinQ\*
- Port Trunk with LACP 14 trunks with automatic link failover
- LACP link aggregation to add bandwidth
- QoS (Quality of Service)
  - · Supports IEEE 802.1p CoS
  - · Per port provides 8 priority queues
  - · Port-base, 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
  - Email, traps, or SMS notification
- 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
- IEEE 1588 PTP v2 two-step, SNTP,NTP supported



- 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 (MVR) to bind with port for IP surveillance application
- IEEE 1588 PTP v2 for every modules; SNTP, NTP supported
- Supports IEEE802.1ab LLDP, Cisco CDP
- DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server for Port & VLAN based DHCP distribution
- 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 and watts that will send out SNMP traps, SMS and emails if there is abnormal events
- TFTP/HTTP firmware upgrade; LantechTM
   InstaConfig\*\* for multiple upgrade; USB for edited
   restoration and auto backup
- Reset / Factory default button to restore factory setting
- Watch dog design to reboot switch if CPU is found dead
- Provides EFT protection ±4000 VDC for power line
- Supports ±8000 VDC Ethernet ESD protection
- 2 DI/DO and 1 relay contact alarm

### **DIMENSIONS** (unit=mm)





## **SPECIFICATION**

	cification	Cone Dimension	200mA
IEEE Standards	IEEE 802.3 10Base-T Ethernet	Case Dimension	19" Metal case,IP-30;
	IEEE 802.3u 100Base-TX Ethernet	Opposition I I	440mm(W)x325mm(D)x44mm(H)
	IEEE 802.3ab 1000Base-T Ethernet	Operating Humidity	5%~95% (Non-condensing)
	IEEE 802.3z Gigabit Fiber	Operating	Standard: -20°C ~60°C
	IEEE 802.3x Flow Control Capability	Temperature	-E model: -40°C ~75°C
	ANSI/IEEE 802.3 Auto-negotiation	Storage Temperature	-40°C ~85°C
	IEEE 802.1Q VLAN	EMI	FCC Class A, CE EN61000-4-2 (ESD),
	IEEE 802.1p Class of Service		CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT)
	IEEE 802.1X Access Control		CE EN61000-4-5 (Surge), CE EN61000-4-6
	IEEE 802.1D Spanning Tree		(CS),
	IEEE 802.1w Rapid Spanning Tree		CE EN61000-4-8, CE EN61000-4-11,
	IEEE 802.1s Multiple Spanning Tree		CE EN61000-4-12, CE EN55022 Class A, CE
	IEEE 802.3ad Link Aggregation Control Protocol		EN55024
	(LACP)	MTBF	245,432hrs
	IEEE 802.1AB Link Layer Discovery Protocol	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27
	(LLDP)		(Shock), IEC60068-2-6 (Vibration)
	IEEE 802.1x User Authentication (Radius) IEEE 1588 Precision Time Protocol v2	Warranty	5 years
		Software Spe	cification
Switch Architecture	IEEE 802.3at/af PoE (IPGS-5400-2P)	Management	SNMP v1 v2c, v3/ Web/Telnet/CLI Managemen
Switch Architecture	Back-plane (Switching Fabric): 56Gbps	SNMP MIB	RFC 1215 Traps MIB*,
Transfer Rate	14,880pps for Ethernet port		RFC 1213 MIBII
	148,800pps for Fast Ethernet port		RFC 1158 MIBII
	1,488,000pps for Gigabit Ethernet / Gigabit Fiber		RFC 1157 SNMP MIB*,
CPU	port Marvell 800Mhz		RFC 1493 Bridge MIB*, RFC 1573 IF MIB
RAM	256M Byte		RFC 2674 VLAN MIB.
Flash	128M Byte		Partial RFC 1757 RMON,
MAC Address	16K MAC address table		RFC 2674 Q-Bridge MIB*; Bridge MIB*,
Jumbo frame	10KB on all ports		LLDP MIB*
Connectors	Max. 28 10/100/1000T RJ-45 with auto		RSTP MIB*
	MDI/MDI-X function		Private MIB
	Max 28 100M Mini-GBIC : SFP sockets	VLAN	Port based VLAN, up to 28 groups
	Max 28 1000M Mini-GBIC : SFP sockets		IEEE802.1Q Tag VLAN
	RS-232 console: Female DB-9		Static VLAN groups up to 256, Dynamic VLAN
	USB for automatic backup and edited restoration		group up to 2048, VLAN ID from 1 to 4096
	configuration		GVRP up to 256 groups* GMRP*.
Protocol	CSMA/CD		Multicast VLAN registration*, QinQ*
LED	Per unit: Power 1 (Green), Power 2 (Green),	Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups/Maximum 24
	FAULT (Red) ,R.M (Green)		trunk members
	Link/Activity (Green), Full	LLDP	Support LLDP to allow switch to advise its
	duplex/collision(Yellow)), MINI GBIC		identification and capability on the LAN
	(Link/Activity)(Green)	CDP	Cisco Discovery protocol for topology mapping
Power Supply	2 X VAC/VDC isolated 4000V	ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection
	85V~265VAC/100~370VDC		in less than 20ms for self-heal recovery (basic
	2x VDC isolated 1600V 36~75VDC		mode)
	Dual input for 12V~57VDC		Support various ring/chain topologies
	PoE power dual input for 45~57VDC		Includes dynamic coupling ring
	(55V input is recommended for 802.3at 30W		Enhanced G.8032 ring configuration with ease
	applications)(IPGS-5400-2P)		Co-exist with RSTP on different ports
Power Consumption	Full load: 30W/ Unload: 13W	User friendly UI	■ Auto topology drawing
PoE	Max. 720W at rear side with dual 45~57VDC		■ Topology demo
Budget(IPGS-5400-2P)	input		■ Auto configuration for G.8032*
Daaget(ir G5-5400-2P)	(55V input is recommended for 802.3at 30W		■ DDM threshold monitoring with dB
	applications)		values***
Polay Marm	,		■ Complete CLI supported
Relay Alarm	Provides one relay output for port breakdown,	PoE Management	■ PoE Detection to check if PD is hang
	power fail and alarm.		up then restart the PD
DUDO	Alarm Relay current carry ability: 1A @ DC24V		■ PoE Scheduling to On/OFF PD upon
DI/DO	2 Digital Input (DI):		routine time table
	Level 0: -30~2V / Level 1: 10~30V		■ Per-port PoE status including current,
	Max. input current:8mA		voltage, watt and temperature
	2 Digital Output(DO): Open collector to 40 VDC,		J .,



	Tree,IEEE802.1w Rapid Spanning Tree, IEEE		Repowered auto ring restore(node
	802.1s MSTP		failure protection)
Quality of Service	The quality of service determined by port, Tag		■ Loop protection
	and IPv4 Type of service, IPv4 Differentiated	System Log	Support System log record and remote system
	Services Code Points - DSCP		log server
Class of Service	Support IEEE802.1p class of service, per port	SMTP/Text SMS	Supports SMTP Server and 8 e-mail accounts
	provides 8 priority queues		for receiving event alert; can send SMS text alert via mobile
QoS by VLAN	Tagged QoS by VLAN for all devices in the	SNMP Trap	Up to 10 trap stations; trap types including:
	network		Device cold start
IP Security	Supports 10 IP addresses that have permission		Authorization failure
	to access the switch management and to		<ul> <li>Port link up/link down</li> </ul>
	prevent unauthorized intruder.		DI/DO open/close
Port Mirror	Support 3 mirroring types: "RX, TX and Both		<ul> <li>Typology change(ITU ring)</li> </ul>
	packet"		<ul> <li>PoE ping failure</li> </ul>
IGMP	Support IGMP snooping v1,v2,v3; Supports		Power failure
	IGMP static route and IGMP router port		Environmental abnormal
	256 multicast groups and IGMP query	DHCP	Provide DHCP Client/ DHCP Server/DHCP
MVR			Option 82/Port based & VLAN based DHCP
WIVIX	Static multicast forwarding forward reversed		distribution (DHCP relay agent)
	IGMP flow (MVR) with multicast packets binding	Mac based DHCP	Assign IP address by Mac that can include dumb
	with ports for IP surveillance application	Server	switch in DHCP network
Bandwidth Control	Support ingress packet filter and egress packet	DNS	Provide DNS client feature and support Primary
	limit.		and Secondary DNS server.
	The egress rate control supports all of packet	PTP v2	Support hardware-based IEEE1588 PTPv2 ,
	type, the limit rates are 0~100Mbps.		End to End (2-step) and Peer to Peer (2-step)
	Ingress filter packet type combination rules are		modes in Transparent Clock
	Broadcast/Multicast/Flooded Unicast packet,	SNTP	Support SNTP to synchronize system clock in
	Broadcast/Multicast packet, Broadcast packet		Internet
	only and all types of packet. The packet filter rate	RTC	Built-in real time clock to keep track of time
	can be set from 0 to 100Mbps		always
	The packet filter rate can be set an accurate	Environmental	Internal sensor to detect temperature, voltage
	value through the pull-down menu for the ingress	Monitoring	and current and send SNMP traps, SMS and
	packet filter and the egress packet limit.		emails if any abnormal events
Network Security	Support 10 IP addresses that have permission to	Factory reset button &	Factory reset button to restore back to factory
,	access the switch management and to prevent	watch dog design	default settings. Watch dog design can reboot
	unauthorized intruder.		switch automatically under certain
	802.1X access control for port based and MAC		circumstances
	based authentication/MAC-Port binding	Firmware Update	Support TFTP /FTP firmware upgrade and
	Management access control with priority	Timiware opaate	restore/ InstaConfig upgrade
	Ingress/Egress ACL L2/L3	USB Configuration	Supports text editable configuration file for
	SSL/ SSH for Management	backup and restore	system quick installation to backup and restore
	HTTPS for secure access to the web interface	backup and restore	
	TACACS+ for Authentication		USB dongle for automatic back up and editable restore
Flow Control	Support Flow Control for Full-duplex and Back		
Tiow Control	·		*Future Release
Protection	Pressure for Half-duplex  Miss-wiring avoidance		**Optional
Protection	■ Miss-wiring avoidance		***Optional DDM SFP required

### **ORDERING INFOMATION**

IGS-5400-2P-HVP/N: 8380-100
4 Modular Slots L2 plus Industrial Switch Chassis
Built-in 1x isolated AC/DC 85~265VAC/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 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 Switch Chassis
Built-in 1x isolated AC/DC 85~265VAC/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 Switch Chassis
Built-in 1x isolated DC 36~85VDC power supply + 1x additional power socket + 1x 48VDC PoE power input: -20°C to 60°C

■ IGS-5400-2P-AC ......P/N: 8380-116

4 Modular Slots L2 plus Industrial Switch Chassis

Built-in 1x isolated AC85~265VAC IEC320 power conversion + 1x additional power socket; -20°C to 60°C

IPGS-5400-2P-AC ......P/N: 8380-136



4 Modular Slots L2 plus Industrial Switch Chassis Built-in 1x isolated AC85~265VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -20° IGS-5400-2P-DC ......P/N: 8380-118 4 Modular Slots L2 plus Industrial Switch Chassis Built-in 1x DC 12~57VDC power supply + 1x additional power socket; -20°C to 60°C IPGS-5400-2P-DC ......P/N: 8380-138 4 Modular Slots L2 plus Industrial 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 Switch Chassis Built-in 1x isolated AC/DC 85~265VAC/100V~370VDC power conversion + 1x additional power socket; -40°C to 75°C IGS-5400-2P-LDC-E ......P/N: 8380-1011 4 Modular Slots L2 plus Industrial Switch Chassis Built-in x1 isolated DC 36~75VDC power supply + 1x additional power socket; -40°C to 75°C IPGS-5400-2P-HV-E ......P/N: 8380-1301 4 Modular Slots L2 plus Industrial PoE Switch Chassis Built-in 1x isolated AC/DC 85-265VAC/100V~370VDC power conversion + 1x additional power socket + 1x 48VDC PoE power input: -40°C to 75°C IPGS-5400-2P-LDC-E ......P/N: 8380-1311 4 Modular Slots L2 plus Industrial PoE Switch Chassis Built-in 1x isolated DC 36~85VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40°C to 75°C IGS-5400-2P-AC-E ......P/N: 8380-1161 4 Modular Slots L2 plus Industrial Switch Chassis Built-in 1x isolated AC85~265VAC IEC320 power conversion + 1x additional power socket; -40°C to 75°C IPGS-5400-2P-AC-E ......P/N: 8380-1361 4 Modular Slots L2 plus Industrial Switch Chassis Built-in 1x isolated AC85~265VAC IEC320 power conversion + 1x additional power socket + 1x 48VDC PoE power input; -40° IGS-5400-2P-DC-E ......P/N: 8380-1181 4 Modular Slots L2 plus Industrial Switch Chassis Built-in 1x DC 12~57VDC power supply + 1x additional power socket; -40°C to 75°C IPGS-5400-2P-DC-E ......P/N: 8380-1381 4 Modular Slots L2 plus Industrial Switch Chassis Built-in 1x DC 12~57VDC power supply + 1x additional power socket + 1x 48VDC PoE power input; -40°C to  $75^{\circ}$ C Modules for Slot 1-3 Note: the modules will be factory pre-installed. 6x100M-SC-MM-PTP Module......P/N: 8380-102 6x 100M-SC-MM 2KM PTPv2 Module ; -40°C to 75°C 6x100M-SC-SM-PTP Module......P/N: 8380-103  $6x\,100M\text{-SC-SM}$  30KM PTPv2 Module ; -40°C to  $75^{\circ}C$ 6x100M-ST-MM-PTP Module......P/N: 8380-109 6x 100M-ST-MM 2KM PTPv2 Module ; -40°C to 75°C 6x100M-ST-SM-PTP Module......P/N: 8380-110 6x 100M-ST-SM 30KM PTPv2 Module; -40°C to 75°C 8xGIGA T-PTP Module......P/N: 8380-105 8x 10/100/1000T Module; Support PTP v2; -40°C to 75°C 8xGIGA T-PoE-PTP at/af Module......P/N: 8380-114 8x 10/100/1000T PoE at/af Module; Support PTP v2; -40°C to 75°C 8x SFP-PTP Module......P/N: 8380-106 8x Dual Speed SFP module for 100M SFP or Gigabit SFP; Support PTP v2; -40°C to 75°C 4x GIGA T + 4x SFP-PTP Module......P/N: 8380-107 4x 10/100/1000T + 4 x 100/1000M Dual Speed SFP Module ; Support PTP v2;  $-40^{\circ}$ C to  $75^{\circ}$ C Modules for Slot 4 Note: the modules will be factory pre-installed. 4x SFP-PTP Module......P/N: 8380-115 4x Dual Speed SFP module for 100M SFP or Gigabit SFP; Support PTP v2; -40°C to 75°C



### **OPTIONAL ACCESSORIES**

#### Power

### EOTH000701

Isolation Power 85-265VAC, 100-370VDC 1.5A , 47-63HZ



#### EOTH000702

Isolation Power 36-75VDC, 2.5A



#### EOTH000703

Power 85-265VAC IEC320 socket, 1.5A , 47-63HZ



#### EOTH000704

Power Input Module 12-57VDC, 2.5A



### Mini GBIC (SFP)

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8330-162X	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	<b>8330-187</b>	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
8330-163X	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	<b>8330-180</b>	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
8330-165X	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	<b>8330-182</b>	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
8340-0591	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	<b>8330-181</b>	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	<b>8330-184</b>	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 1000EZX (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	<b>8330-068</b>	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)	<b>8330-083</b>	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)	<b>8330-191</b>	Dual Speed SFP 100M/1000M-LX 10KM Transceiver
<b>8330-186</b>	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)	All SFP# end	ded with D are with DDM function

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