

IPGS-6488XSFP

8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ w/8 PoE at/af L2+

Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring ; PXE;

24V/48V input models

- Auto-sensing SFP/ SFP+ Uplink Cage
- Dual 24V or 48V input
- Support IEEE802.3at/af up to 30W per port; PoE budget 80W(12V) or 120W (24V) and 240W (at 48V input)
- PoE management incl. Detection and Scheduling
- Enhanced G.8032 ring covers multicast packets; MSTP 8 MSTI / RSTP; support MRP ring
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, MLD snooping, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QinQ, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3, TACACS+, subnet VLAN and protocol VLAN
- Support PXE to verify switch firmware with the latest or certain version on server
- USB port to backup, restore the configuration file and upgrade
- Optional L3Lite/L3* to be upgradable
- Protocol based VLAN; IPv4 Subnet based VLAN
- Enhanced Environmental Monitoring for temp., actual input voltage, current & total power load
- Wide range operation temperature (-E model): -40~75C/-40~167F; Fan-less design



OVERVIEW

Lantech IPGS-6488XSFP is a high performance L2+ (All Gigabit) Ethernet switch with 8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ auto-sensing cage w/8 PoE 802.3af/at ports which provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring. It also supports enhanced mode with easy configuration, comprehensive QoS, advanced security including INGRESS ACL L2/L3, TACACS+, SSH v2/SSL, Mac based DHCP server, DHCP Option 82, DHCP server, IGMPv1/v2/v3/router port, QinQ which are important features required in large network. The Cisco Discovery Protocol (CDP) and LLDP are supported for Ciscoworks to detect the switch info and show on L2 map topology.

PoE at/af up to 8 10/100TX Ports with detection and scheduling

Lantech IPGS-6488XSFP supports advanced PoE management including PoE detection and scheduling. PoE detection can detect if the connected PD is hanged then restart

the PD; PoE scheduling is to allow pre-set power feeding schedule upon routine time table. Each PoE port can be enabled/disabled, get the voltage, current, Watt, and temperature info displayed on WebUI.

Miss-wiring avoidance, node failure protection, Loop protection

The IPGS-6488XSFP 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 IPGS-6488XSFP is able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the Ethernet switches in a ring to survive after power breakout is back. The status can be shown in NMS when each Ethernet 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.

Support PXE to verify switch firmware with the latest or certain version

The switch can check its firmware version during booting time via PXE protocol. If switch finds any newer version, it will upload automatically.

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. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application. Basic IPv6 DHCP service can be supported.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IPGS-6488XSFP much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8 MSTI MSTP, MRP ring

Lantech IPGS-6488XSFP 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 enhanced ring and basic ring by easy setup than others. It supports MSTP that allows RSTP over VLAN for redundant links with 8 MSTI.

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

Enhanced Storm control*

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces and the detection is more precise and reaction is more efficient.

QinQ, QoS and GVRP supported

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

IGMPv3, GMRP, router port, MLD Snooping, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP, router port, MLD Snooping and static multicast forwarding binding by ports for video surveillance application.

Optional L3Lite/L3* to be upgradable

Lantech OS3 is optional upgradable to L3 Lite for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing.

Editable configuration file; USB port for upload/download configuration

The configuration file of Lantech IPGS-6488XSFP can be exported and edited with word processor for the other switches configuration with ease.

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

The USB port can upload/download the configuration from/to USB dongle.

2DI/2DO for relay contact and event alerting by email & traps**

In case of event, the IPGS-6488XSFP is able to send an email** 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.

Enhanced Environmental monitoring for Ethernet switch inside information

The enhanced environmental monitoring can detect switch overall temperature, actual input voltage and current. It also can send the SNMP traps and email** when abnormal.

Dual power 24V or 48V input; High PoE budget

The Lantech IPGS-6488XSFP is designed with dual power supply at 12VDC (24V model) for 12V~56VDC input and can provide 80W (12V input) or 120W (24V input) PoE budget. The 48V model can support dual power 44VDC~56VDC input and can have 240W PoE budget.

Industrial hardened design with high EFT and ESD protection

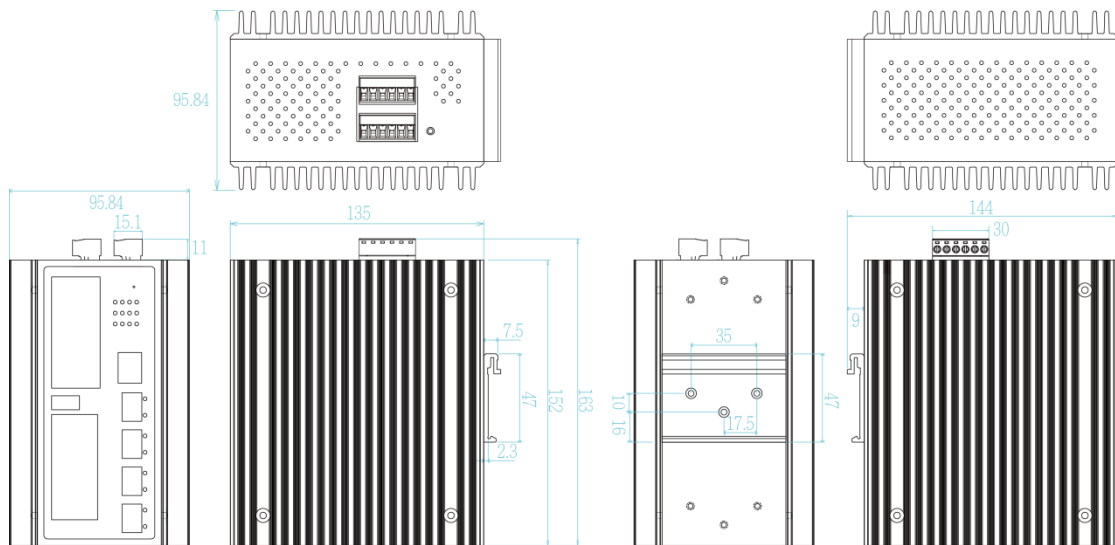
Lantech IPGS-6488XSFP features high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in factory, substation, steel automation, aviation, mining and process control. Featured with relay contact alarm function, the IPGS-6488XSFP is able to connect with alarm system in case of power failure or port disconnection. The IPGS-6488XSFP also provides $\pm 2000V$ EFT and ± 4000 VDC (Contact) / ± 8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet.

It is the best solution for Automation, transportation, 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.

FEATURES & BENEFITS

- **8 10/100/1000T + 8 100M/1G SFP+ 4 1G/2.5G/10G SFP+ auto-sensing cage w/8 PoE 802.3af/at ports L2+ industrial PoE managed Ethernet switch (Total 20 Ports Switch)**
- **Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W per port for active operation**
- **12V dual input from 12V~56VDC (24V model); 48V dual input from 44V~56VDC (48V model)**
- **PoE management including PoE detection and scheduling for PD (power devices)**
- **Back-plane (Switching Fabric): 112Gbps**
- **16K MAC address table**
- **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*
- **10KB Jumbo frame**
- **User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting**
- **Enhanced G.8032 Ring protection in 20ms for single ring**
 - *Support various ring/chain topologies, including enhanced ring & basic ring*
 - *Enhanced G.8032 ring configuration with ease*
 - *Cover multicast and data packets protection*
- **Provides EFT protection ± 2000 VDC for power line**
- **Supports ± 4000 VDC (Contact) and ± 8000 VDC (Air) Ethernet ESD protection**
- **Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and Type of Service Priority**
- **IEEE 802.1d STP, IEEE 802.1w RSTP, 802.1s MSTP VLAN redundancy with 8 MSTI**
- **4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ, QoS**
- **Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console**
- **Support PXE to verify switch firmware with the latest or certain version**
- **DHCP server / client / DHCP Option 82 relay / DHCP Option 82 server; Port based DHCP server; DHCP Option 66; Basic IPv6 DHCP server**
- **Mac based DHCP server to assign IP address that includes dumb Ethernet switches in DHCP network**
- **Bandwidth Control**
 - *Ingress packet filter and egress* rate limit*
 - *Broadcast/multicast packet filter control*
- **Relay alarm output system events**
- **Miss-wiring avoidance**
 - *LED indicator*
- **TFTP/HTTP firmware upgrade**
- **System Event Log, SMTP Email** alert and SNMP Trap for alarm support; 32 RMON counters**
- **Security**
 - *SSL/SSH v2/INGRESS ACL L2/L3*
 - *MAC address table: MAC address entries/Filter/static MAC-Port binding*
 - *Remote Admin: IP address security management to prevent unauthorized intruder.*
 - *TACACS+*
 - *Login Security: IEEE802.1X/RADIUS*
 - *HTTPS for secure access to the web interface*
- **Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application**
- **IGMP router port to assign query in ring and for reversed multicast video flow**
- **IGMPv1,v2,v3 with Query mode for multi media**
- **MLD Snooping for IPv6 Multicast stream**
- **Dual image firmware support**
- **Factory reset button to restore setting to factory default**
- **Watchdog design to auto reboot switch when CPU is found dead**
- **Diagnostic including Ping / ARP table / DDM information**
- **Enhanced Environmental monitoring for system real input voltage, PoE load, current, ambient temperature**
- **Supports DIDO (Digital Input/Digital Output)**
- **Configuration backup and restoration**
 - *Supports text configuration file for system quick installation*
 - *USB port to upload/download configuration file by USB dongle*
- **Optional L3Lite/L3* to be upgradable**
- **IP30 metal housing with DIN rail and Wall-mount** design**

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification

Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3an 10Gbase-T IEEE802.3ae 10G Fiber 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
Switch Architecture	Back-plane (Switching Fabric): 112Gbps
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: 8x 100M/1G SFP + 4 x 1G/2.5G/10G SFP+ auto-sensing cage with DDMM RS-232 connector: RJ-45 type USB x 1 Power & Relay connector: 1 x 6-pole terminal block DIDO : 1 x 6-pole terminal block
Network Cable	100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable; EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/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,

LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red); RM(Green) Ethernet port: Link/Activity (Green), Speed (Green); PoE: Link/Act (Green); Mini-GBIC: Link/Activity (Green)
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
Operating Humidity	5% ~ 95% (Non-condensing)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Power Supply	Dual DC input 12V~57V; Dual DC input 16V~57V when using 10G copper Dual 44~56VDC (48V model)
PoE Budget	24V model: 24V: 120W / 12V: 80W 48V model: 240W
PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3at/af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
Power Consumption	29W without PoE load
Case Dimension	Metal case. IP-30,

Weight	95.84 (W) x 135 (D) x 152 (H) mm
Installation	900 g
EMI & EMS	DIN Rail and Wall Mount** Design
Stability Testing	FCC Class A, CE EN55032 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-6-2, CE EN61000-6-4
MTBF	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Warranty	591,245 (Hrs) (standards: IEC 62380)
Software Specification	
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI
SNMP MIB	RFC 1213 MIBII RFC 1158 MIB RFC 1157 SNMP MIB RFC 1493 Bridge MIB* RFC 1573 IF MIB RFC 2674 Q-Bridge MIB* RFC 2819 RMON MIB Private MIB
PoE Management	PoE Detection to check if PD hangs then restart the PD PoE scheduling
Per Port PoE Status	On/ Off, voltage, current, watts, temperature
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 basic single ring & enhanced ring Enhanced G.8032 ring configuration with ease Cover multicast & data packets protection
Per Port PoE Status	On/ Off, voltage, current, watts, temperature
User friendly UI	<ul style="list-style-type: none"> ■ Auto topology drawing ■ Topology demo ■ Complete CLI for professional setting
Port Trunk with LACP	LACP Port Trunk: 10 Trunk groups
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN
CDP	Cisco Discovery Protocol for topology mapping
Enhanced Environmental Monitoring	System status for actual input voltage, current ambient temperature and total power load to be shown in GUI and sent alerting if any abnormal status
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 Protocol based VLAN Subnet based VLAN
Spanning Tree	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI
Quality of Service	The quality of service determined by 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
Remote Admin	Supports 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder.
Login Security	Supports IEEE802.1X Authentication/RADIUS
Port Mirror	Support 3 mirroring types: "RX, TX and Both packet"
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/static MAC-Port binding Ingress ACL L2/L3 SSL/ SSH v2 for Management HTTPS for secure access to the web interface TACACS+ for Authentication
MLD Snooping	Support IPv6 Multicast stream
IGMP	Support IGMP snooping v1,v2,v3; 256 multicast groups; IGMP router port ; IGMP query; GMRP
Static multicast forwarding	Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP surveillance application
Bandwidth Control	Support ingress packet filter and egress* packet limit. The egress* rate control supports all of packet type. 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 an accurate value through the pull-down menu for the ingress packet filter and the egress* packet limit.
Flow Control	Supports Flow Control for Full-duplex and Back Pressure for Half-duplex
System Log	Supports System log record and remote system log server
SMTP	Supports SMTP Server and 8 e-mail accounts for receiving event alert
Relay Alarm	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Protection	<ul style="list-style-type: none"> ■ Miss-wiring avoidance ■ Node failure protection ■ Loop protection
SNMP Trap	Up to 5 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
PXE	PXE to verify switch firmware with the latest or certain version
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82/Port based DHCP ; DHCP Option 66 ; Basic IPv6 DHCP server
Mac based DHCP Server	Assign IP address by Mac that can include dumb switch in DHCP network
DNS	Provide DNS client feature and support Primary and Secondary DNS server.
SNTP	Supports SNTP to synchronize system clock in Internet
Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade
Optional L3Lite/L3*	Lantech OS3 is optional upgradable to L3 Lite/L3* for future expansion. The optional L3Lite includes editable routing table, VRRP, Router-on-a-stick, Inter- VLAN routing.
Configuration upload and download	Supports text configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB for auto restore/backup configuration file
Diagnostic	Support Ping, ARP table and DDM information
Dual Image Firmware	Support dual image firmware function

*Future release
**Optional
***Optional DDM
SFP required

ORDERING INFORMATION

- **IPGS-6488XSFP-24V.....P/N: 8350-882**
8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage w/8 PoE 802.3af/at ports L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Enhanced Environmental Monitoring; dual 12V~56V input, PoE budget 80W at 12V; 120W at 24V
- **IPGS-6488XSFP-24V-E.....P/N: 8350-8821**
8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage w/8 PoE 802.3af/at ports L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Enhanced Environmental Monitoring; dual 12V~56V input, PoE budget 80W at 12V; 120W at 24V
- **IPGS-6488XSFP-48V.....P/N: 8350-8802**
8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage w/8 PoE 802.3af/at ports L2+ Industrial Managed Ethernet Switch; -20°C to 60°C; Enhanced Environmental Monitoring; dual 44V~56V input, PoE budget 240W
- **IPGS-6488XSFP-48V-E.....P/N: 8350-8803**
8 10/100/1000T + 8 100M/1G SFP + 4 1G/2.5G/10G SFP+ Auto sensing cage w/8 PoE 802.3af/at ports L2+ Industrial Managed Ethernet Switch; -40°C to 75°C; Enhanced Environmental Monitoring; dual 44V~56V input, PoE budget 240W

OPTIONAL ACCESSORIES

Software package

- **OS3 – L3L..... P/N: 9000-114**
OS3 software platform with Layer 3 Lite functions (please check Lantech software data sheet for details)
- **OS3 – L3*..... P/N: 9000-116**
OS3 software platform with Layer 3 functions (please check Lantech software data sheet for details)

DIN Rail Power

- **NDR-240-48** 240W (48V 5A) 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-120-48** 120W (48V 2.5A) 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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| ■ 8330-162X MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-263D MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver |
| ■ 8330-163X MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-265D MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver |
| ■ 8330-165X MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-193D 10G Base SFP* SR, Multi-mode (LC/300m) Transceiver |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-194D 10G Base SFP* LR, Single-mode (LC/10km) Transceiver |
| ■ 8330-166 MINI GBIC 1000XD (LC/50km) Transceiver | |
| ■ 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-209D 10G Base SFP+ , Single-mode(10km) Transceiver (WDM 1270) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-210D 10G Base SFP+ , Single-mode(10km) Transceiver (WDM 1330) |
| ■ 8330-170 MINI GBIC 1000EZX (120km) Transceiver | ■ 8330-200D 10G Base SFP* , Single-mode(20km) Transceiver (WDM 1270) |
| ■ 8330-168 MINI GBIC 1000T (100m) Transceiver | ■ 8330-201D 10G Base SFP* , Single-mode(20km) Transceiver (WDM 1330) |
| ■ 8330-188 LTSFP-1000BX-10KM Transceiver (WDM 1310) | ■ 8330-202D 10G Base SFP* , Single-mode(40km) Transceiver (WDM 1270) |
| ■ 8330-189 LTSFP-1000BX-10KM Transceiver (WDM 1550) | ■ 8330-203D 10G Base SFP* , Single-mode(40km) Transceiver (WDM 1330) |
| ■ 8330-186 LTSFP-1000BX-20KM Transceiver (WDM 1310) | ■ 8330-206 10G/5G/2.5G/1000Base-T SFP, 3.3V,30m (10G) 50m (2.5G/5G) 100m (1G); -10~70°C (only used from 18V~57VDC power input, maximum two ports) |
| ■ 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550) | |
| ■ 8330-180 LTSFP-1000BX-40KM Transceiver (WDM 1310) | |
| ■ 8330-182 LTSFP-1000BX-40KM Transceiver (WDM 1550) | |
| ■ 8330-181 LTSFP-1000BX-60KM Transceiver (WDM 1310) | |
| ■ 8330-183 LTSFP-1000BX-60KM Transceiver (WDM 1550) | |
| ■ 8330-184 LTSFP-1000BX-80KM Transceiver (WDM 1490) | |
| ■ 8330-185 LTSFP-1000BX-80KM Transceiver (WDM 1550) | |
| ■ 8330-262D MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver | |

All SFP ended with D are with Diagnostic function

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