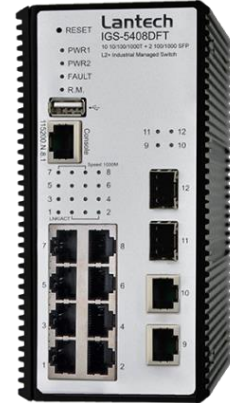


IGS-5408DFT-PT

2 10/100/1000T + 2 100/1000 SFP + 8 10/100/1000T IEC-61850-3 Industrial Managed Ethernet Switch w/ Enhanced G.8032 Ring & MMS

- Compliant with IEC61850-3 & IEEE1613
- Built-in MMS server based on IEC61850-90-4 switch data modeling for SCADA with monitoring and control
- 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
- 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, DHCP server & DHCP Option82; Port based DHCP distribution, Mac based DHCP server, QoS by VLAN, SSH/SSL, HTTPS, INGRESS/EGRESS ACL L2/L3, QinQ
- Protocol based VLAN ; IPv4 Subnet based VLAN
- Environmental Monitoring for temp, voltage and current
- Wide range dual DC input from 36V~72V with galvanic isolation
- USB port to backup, restore the configuration file and upgrade firmware (-U model)



OVERVIEW

Lantech IGS-5408DFT-PT is a high performance L2+ (Gigabit uplink) switch with 8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP that complies with IEC 61850-3 & IEEE 1613. It delivers ITU G.8032 enhanced ring recovery less than 20ms in single ring while also supports train ring, enhanced mode, multiple VLAN model with easy configuration.

The built-in MMS server allows SCADA to control & monitor switch for data modeling.

Built-in MMS server for IEC61850 data modeling for monitoring and control

The built-in MMS (Manufacturing Messaging Specification) server can help SCADA to monitor and control switch by data modeling. It covers system, power, port status, environmental monitoring, and network configuration.

Miss-wiring avoidance, Node failure protection, Loop protection

The IGS-5408DFT-PT 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 IGS-5408DFT-PT is 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. 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.

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

Lantech IGS-5408DFT-PT 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, multiple-VLAN ring and auto-ring with easy setup. The innovative auto-Ring configurator (auto mode) can calculate owner and neighbor in one step. It supports MSTP that allows spanning tree over VLAN for redundant links with 16 MSTI.

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 basic IPv6 DHCP service can be supported.

QoS by VLAN for legacy devices

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 and GVRP supported

It supports the QinQ, GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, 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 and static multicast forwarding binding by ports for video surveillance application.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-5408DFT-PT much easier to get hands-on. The IGS-5408DFT-PT 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. The complete CLI enables professional engineer to configure setting by command line.

Editable configuration file; USB port for configuration upload & download

The configuration file of Lantech IGS-5408DFT-PT 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 and built-in watchdog design can automatically reboot the switch when CPU is found dead.

The built-in USB port can have configuration upload & download by USB dongle.

Event log & message; 2 DI / 2 DO

In case of event, the IGS-5408DFT-PT is able to send an email to pre-defined addresses as well as SNMP Traps our immediately. It provides 2 DI and 2 DO. 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.

Environmental monitoring for switch inside information

The environmental monitoring can detect switch overall temperature, voltage and current where can send the SNMP traps and email when abnormal.

Wide range dual DC powered input with galvanic isolation; Relay contact alarm

The Lantech IGS-5408DFT-PT is designed with wide range dual power input from 18V~72VDC with galvanic isolation. Featured with relay contact alarm function, the IGS-5408DFT-PT is able to connect with alarm system in case of power failure or port disconnection. The IGS-5408DFT-PT also provides 4kV EFT, ±4kV Surge and ±15kV ESD air protection, which can reduce unstable situation caused by power line and Ethernet.

Industrial hardened design for extended temperature operation

Lantech IGS-5408DFT-PT 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 and assembly lines.

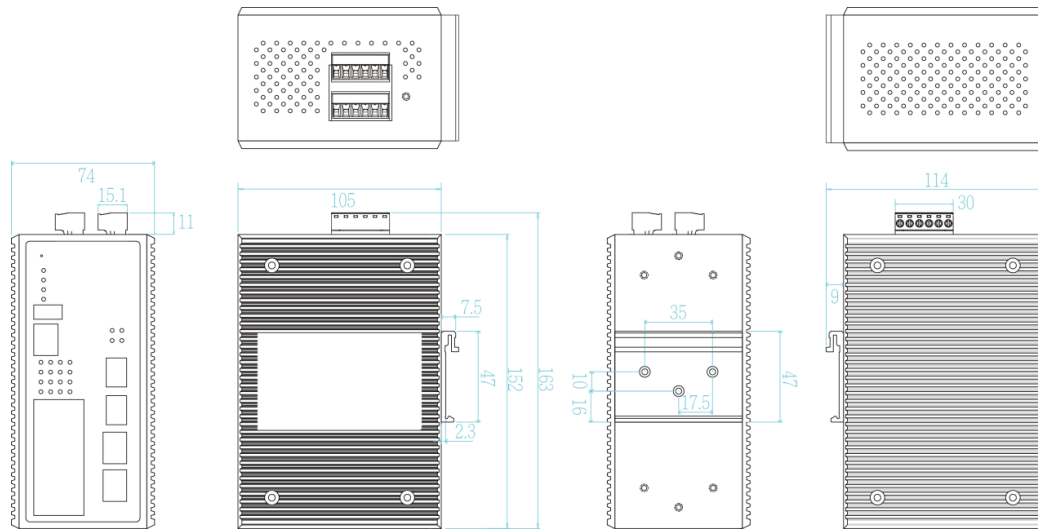
FEATURES & BENEFITS

- **8 10/100/1000T + 2 10/100/1000T + 2 Dual Speed SFP (Total 12 Ports Switch)**
- **Back-plane (Switching Fabric): 24Gbps**
- **16K MAC address table**
- **Built-in MMS server for SCADA data-modeling with control and monitoring**
 - System info
 - Environmental monitoring
 - Power
 - Device event report
 - Port status
 - Port statistic
 - Port event report
 - Firmware upgrade
 - Network configuration
- **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 recovery < 20ms in single ring**
 - 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
 - Covers multi-cast and data packets
- **Provides 4kV EFT protection**
- **Provides ±8kV (Contact) and ±15kV (Air) ESD protection**
- **Provides ±4kV Surge 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 16 MSTI**
- **4K 802.1Q VLAN, Port based VLAN, GVRP, QinQ**
- **Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console**
- **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 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
- **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
- **TFTP/ HTTP firmware upgrade**
- **Configuration backup and restoration**
 - Supports text configuration file for system quick installation
 - USB port for upload / download configuration by USB dongle
- **System Event Log, SMTP Email alert and SNMP Trap for alarm support; 32 RMON counters**
- **Security**
 - SSL/SSH/INGRESS/EGRESS ACL L2/L3
 - MAC address table: MAC address entries/Filter/MAC-Port binding
 - IP Security: IP address security management to prevent unauthorized intruder.
 - 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 for reversed multicast video flow**
- **IGMPv1,v2,v3 with Query mode for multimedia; GMRP**
- **Factory reset button to restore setting to factory default**
- **Watchdog design to auto reboot switch CPU is found dead**
- **Supports DIDO (2 Digital Input / 2 Digital Output)**
- **Wide range dual input power from 36V to 72V with galvanic isolation**
- **Environmental monitoring for system input voltage, current and ambient temperature.**
- **IP30 metal housing with DIN rail and Wall-mount** design**

DIMENSIONS (unit=mm)

IGS-5408DFT-PT



SPECIFICATION

Hardware Specification

Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T Ethernet IEEE802.3z Gigabit 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)
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	IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag
Switch Architecture	Back-plane (Switching Fabric): 24Gbps
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port
Mac Address	16K MAC address table
Jumbo frame	10KB
Connectors	10/100/1000T:10 x ports RJ-45 with Auto

	MDI/MDI-X function Mini-GBIC: 2 x 100/1000 SFP socket with DDM RS-232 connector: RJ-45 type USB x 1 (-U model) Power & Relay connector: 1 x 6-pole terminal block DIDO : 1 x 6-pole terminal block															
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)															
Optical Cable	1.25Gbps: 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) 125Mbps: Multi mode: 0 to 2 km/ 5 km, 1310 nm (62.5/125 µm) Single mode: 0 to 30 km, 1310 nm (62.5/125 µm) WDM 1.25Gbps: 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 125Mbps: Single mode: 0 to 20 km/ 40 km/ 60 km/ 80 km, 1310 nm (9/125 µm); 0 to 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 µm)															
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red), RM(Green) Ethernet port: Link/Activity (Green), Speed (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	36 to 72 VDC with galvanic isolation															
Power Consumption	10W															
Case Dimension	Metal case. IP-30, 74 (W) x 105 (D) x 152 (H) mm															
Weight	900 g															
Installation	DIN Rail and Wall Mount** Design															
EMI & EMS	FCC Class A, CE EN55032 Class A, CE EN55024, <table border="1"> <tr> <td></td> <td>IEC 61850-3</td> <td>IEEE 1613</td> </tr> <tr> <td>IEC 61000-4-2 ESD</td> <td>Contact: ±6 kV; Air: ±8 kV</td> <td>Contact: ±8 kV; Air: ±15 kV</td> </tr> <tr> <td>IEC 61000-4-3 RS</td> <td>80 to 3000 MHz: 10 V/m</td> <td>80 to 1000 MHz: 20 V/m</td> </tr> <tr> <td>IEC 61000-4-4 EFT</td> <td>220VAC: Power: 4 kV; Signal: 4 kV 48VDC: Power: 4 kV</td> <td></td> </tr> <tr> <td>IEC 61000-4-5 Surge</td> <td>DC power: Line to line: ±1 kV; Line to earth: ±2 kV AC power: Line to line: ±2 kV; Line to earth: ±4</td> <td></td> </tr> </table>		IEC 61850-3	IEEE 1613	IEC 61000-4-2 ESD	Contact: ±6 kV; Air: ±8 kV	Contact: ±8 kV; Air: ±15 kV	IEC 61000-4-3 RS	80 to 3000 MHz: 10 V/m	80 to 1000 MHz: 20 V/m	IEC 61000-4-4 EFT	220VAC: Power: 4 kV; Signal: 4 kV 48VDC: Power: 4 kV		IEC 61000-4-5 Surge	DC power: Line to line: ±1 kV; Line to earth: ±2 kV AC power: Line to line: ±2 kV; Line to earth: ±4	
	IEC 61850-3	IEEE 1613														
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	<table border="1"> <tr> <td></td> <td>kV Signal: Line to line: ±2 kV; Line to earth: ±4 kV</td> </tr> <tr> <td>IEC 61000-4-6 CS</td> <td>220VAC: Power: 10V; Signal: 10V 48VDC: Power: 10V</td> </tr> </table> <p>IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs CE EN61000-6-2</p>		kV Signal: Line to line: ±2 kV; Line to earth: ±4 kV	IEC 61000-4-6 CS	220VAC: Power: 10V; Signal: 10V 48VDC: Power: 10V
	kV Signal: Line to line: ±2 kV; Line to earth: ±4 kV				
IEC 61000-4-6 CS	220VAC: Power: 10V; Signal: 10V 48VDC: Power: 10V				
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-64 (Vibration)				
Railway verification	EN 50121-4				
Substation Verification	IEC 61850-3 IEEE 1613				
MTBF	830,589 hrs				
Warranty	5 years				
Software Specification					
Management	SNMP v1 v2c, v3/ Web/Telnet/CLI				
SNMP MIB	RFC 1213 MIBII RFC 1158 MIBII RFC 1157 SNMP MIB, RFC 1493 Bridge MIB* RFC 1573 IF MIB Partial RFC 1757 RMON, RFC 2674 Q-Bridge MIB*; LLDP MIB Private MIB				
ITU G.8032	Support ITU G.8032 v2/2012 for Ring protection in less than 20ms for self-heal recovery (single ring) 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. Protect multicast & unicast data				
MMS Data Modeling	<ul style="list-style-type: none"> System info Environmental monitoring Power Device event report Port status Port statistic Port event report Firmware upgrade Network configuration 				
User friendly UI	<ul style="list-style-type: none"> Auto topology drawing Topology demo Auto configuration for G.8032(auto mode) for single ring DDM threshold monitoring with dB values*** Complete CLI for professional setting 				
Port Trunk with LACP	LACP Port Trunk: 8 Trunk groups				
LLDP	Supports LLDP to allow switch to advise its identification and capability on the LAN				
CDP	Cisco Discovery Protocol for topology mapping				
Environmental Monitoring	System status for input voltage, current and ambient temperature 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, QinQ, Protocol based VLAN; IPv4 Subnet based VLAN				
IPv6/4	Present				

RSTP/MSTP	Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree with 8/16*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
QoS by VLAN	Tagged QoS by VLAN for all devices in the network
IP Security	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/MAC-Port binding Ingress/Egress ACL L2/L3 SSL/ SSH for Management HTTPS for secure access to the web interface for Authentication
IGMP	Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP router port; IGMP query; GMRP
Static MAC-Port bridge	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 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**
DHCP	Provide DHCP Client/ DHCP Server/DHCP Option 82 relay/ 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
Configuration backup & restore	Supports text configuration file for system quick installation USB port to upload/download firmware by USB dongle

*Future release

**Optional

***Optional DDM SFP required

ORDERING INFORMATION

- **IGS-5408DFT-PT-DC.....P/N: 8350-8252**
2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T IEC61850-3 Managed Ethernet Switch w/ USB slot, Enhanced Ring & MMS, environmental monitoring, w/ dual 36V~72VDC input; -40°C to 75°C
- **IGS-5408DFT-PT-HV.....P/N: 8350-8254**
2 10/100/1000T+2x100/1000 SFP + 8 10/100/1000T IEC61850-3 Managed Ethernet Switch w/ USB slot, Enhanced Ring & MMS, environmental monitoring, w/ One isolated 90~305VAC/120~430VDC power supply; -40°C to 75°C

OPTIONAL ACCESSORIES

DIN Rail Power

- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)
- **MDR-20 Series** 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC 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)

Mini GBIC (SFP)

- | | |
|---|---|
| ■ 8330-162X MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-169 MINI GBIC 1000XD (LC/SM/60KM) Transceiver |
| ■ 8330-163X MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-167 MINI GBIC 1000ZX (LC/SM/80KM) Transceiver |
| ■ 8330-165X MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-170 MINI GBIC 1000EZX (LC/SM/120KM) Transceiver |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-168 MINI GBIC 10/100/1000T (100m) Transceiver |
| ■ 8330-166 MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-060 MINI GBIC 100Base (LC/MM/2KM) Transceiver |

■ 8330-065	MINI GBIC 100Base (LC/MM/5KM) Transceiver	■ 8330-184	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
■ 8330-061	MINI GBIC 100Base (LC/SM/30KM) Transceiver	■ 8330-185	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
■ 8330-197	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)	■ 8330-071	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
■ 8330-198	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	■ 8330-072	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
■ 8330-195	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	■ 8330-069	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
■ 8330-196	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	■ 8330-068	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
■ 8330-188	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	■ 8330-080	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
■ 8330-189	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)	■ 8330-082	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
■ 8330-186	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)	■ 8330-081	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
■ 8330-187	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)	■ 8330-083	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
■ 8330-180	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)	■ 8330-084	125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
■ 8330-182	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)	■ 8330-085	125Mbps BiDi SFP 80KM (WDM 1550) Transceiver
■ 8330-181	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)	■ 8330-191	Dual Speed SFP 100M/1000M-LX 10KM Transceiver
■ 8330-183	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)		All part no. with a D have DDM function

Wall Mount Bracket

MBAK19003	Wall mount bracket for 74(W) x 105 (D) x 152 (H) mm / 96 (W) x 105 (D) x 152 (H) mm Industrial switches
MBAK19004	19" Rack Mounting Kit for 74x105x152mm/74x135x152mm Industrial Switch

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