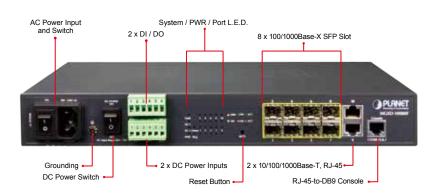


8-Port 100/1000X SFP + 2-Port 10/100/1000T Managed Metro Ethernet Switch



Multiple SFP Fiber Port Switch for Growing Long-Reach Networking of Enterprise, Telecoms and Campus

The PLANET latest Metro series Ethernet switch MGSD-10080F is equipped with advanced management functions and provides 8 100/1000Mbps dual speed SFP Fiber ports, and 2 10/100/1000Mbps TP ports delivered in a rugged strong case. It is capable of providing non-blocking switch fabric and wire-speed throughput as high as 20Gbps in the temperature range from -10 to 60 degrees C without any packet loss and CRC error, which greatly simplify the tasks of upgrading the enterprise LAN for catering to increasing bandwidth demands. The MGSD-10080F is specially designed for service provider to deliver profitable long distance Ethernet network. The MGSD-10080F adopts "Front Access" design, making the wiring and maintenance of the MGSD-10080F placed in a cabinet very easy for technicians.



Physical Port

- 8 100/1000Base-X SFP mini-GBIC slots
- 2-Port 10/100/1000Base-T Gigabit Ethernet RJ-45
- One RJ-45 console interface for basic management and setup

Redundant Power System

- Redundant Power System: 100V ~ 240V AC / Dual 36V ~ 72V DC
- · Active-active redundant power failure protection
- · Backup of catastrophic power failure on one supply
- · Fault tolerance and resilience.

Digital Input / Digital Output

- 2 Digital Input (DI)
- 2 Digital Output (DO)
- · Integrates sensors into auto alarm system
- · Transfer alarm to IP network via SNMP trap

Hardware Design

- -10 to 60 degrees C operating temperature for DC power input only
- 13-inch desktop size, 19-inch Rack-mountable
- Relay alarm for port breakdown, power failure
- · Fanless design

Layer 2 Features

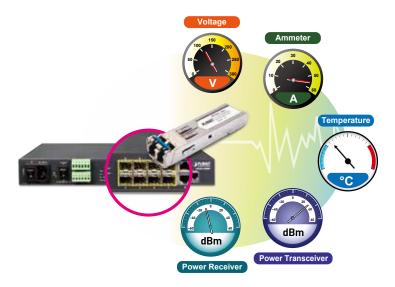
- Prevents packet loss with back pressure (Half-Duplex) and IEEE 802.3x PAUSE frame flow control (Full-Duplex)
- High performance of Store-and-Forward architecture and runt/CRC filtering eliminate erroneous packets to optimize the network bandwidth
- Storm Control support
 - Broadcast / Multicast / Unicast



Flexible and Extendable Solution

The 8 mini-GBIC slots built in the MGSD-10080F support Dual-Speed, 100Base-FX and 1000Base-SX/LX SFP (Small Form-factor Pluggable) fiber-optic modules, meaning the administrator now can flexibly choose the suitable SFP transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. The MGSD-10080F supports SFP-DDM (Digital Diagnostic Monitor) function that can easily monitor real-time parameters of the SFP for network administrator, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

Digital Diagnostic Monitor (DDM)



AC and DC Redundant Power to Ensure Continuous Operation

To enhance the operation reliability and flexibility, the MGSD-10080F is equipped with one 100 \sim 240V AC power supply unit and two additional 36 \sim 72V DC power input connectors for redundant power supply installation. The Redundant Power Systems are specifically designed to handle the demands of high tech facilities requiring the highest power integrity. Furthermore, with the 36 \sim 72V DC power supply implemented, the MGSD-10080F can be applied as the telecom level device that could be located in the electronic room.

Digital Input and Digital Output for External Alarm

The MGSD-10080F supports Digital Input, and Digital Output on the front panel. The external alarm offers technicians the ability to use Digital Input to detect, and log external device status (such as door intrusion detector) for the alarm as Digital Output could be used to alarm if the MGSD-10080F has port link down, link up or power failure.

- · Supports VLAN
 - IEEE 802.1Q Tagged VLAN
 - Up to 255 VLANs groups, out of 4094 VLAN IDs
 - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Protocol-based VI AN
 - MAC-based VLAN
 - Voice VLAN
- · Supports Spanning Tree Protocol
 - STP, IEEE 802.1D Spanning Tree Protocol
 - RSTP, IEEE 802.1w Rapid Spanning Tree Protocol
 - MSTP, IEEE 802.1s Multiple Spanning Tree
 Protocol, spanning tree by VLAN
 - BPDU Guard
- · Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (Static Trunk)
 - Maximum 5 trunk groups, up to 8 ports per trunk group
 - Up to 16Gbps bandwidth (Duplex Mode)
- Provides Port Mirror (1-to-1)
- Port Mirroring to monitor the incoming or outgoing traffic on a particular port
- · Loop protection to avoid broadcast loops

Quality of Service

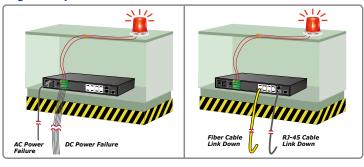
- Ingress Shaper and Egress Rate Limit per port bandwidth control
- 8 priority queues on all switch ports
- Traffic classification
 - IEEE 802.1p CoS
 - IP TOS / DSCP / IP Precedence
 - IP TCP/UDP port number
 - Typical network application
- Strict priority and Weighted Round Robin (WRR) CoS policies



Digital Input



Digital Output



Cost-effective IPv6 Managed Gigabit Switch Solution for Metro Ethernet

To fulfill the demand for ISP to build up the IPv6 (Internet Protocol version 6) network infrastructure speedily, the MGSD-10080F supports both IPv4 and IPv6 management functions. It can work with original IPv4 network structure and also support the new IPv6 network structure. With easy and friendly management interfaces and plenty of management functions included, the MGSD-10080F Metro Ethernet Switch is the best choice for ISP and service providers to build the IPv6 FTTx edge service and for Industries to connect with IPv6 network.

Layer 2 / Layer 4 Full-functioned Managed Switch for Building Automation Networking

The MGSD-10080F Managed Ethernet Switch is also ideal for applications in the factory data centers and distributions. It provides advanced Layer 2 to Layer 4 data switching and redundancy, Quality of Service traffic control, network access control and authentication, and secure management features to protect customer's Automation Ethernet network connectivity with reliable switching recovery capability that is suitable for implementing fault tolerant and mesh network architectures.

Powerful Security

The MGSD-10080F offers comprehensive Access Control List (ACL) for enforcing security to the edge. Its protection mechanisms also comprise port-based 802.1x and MAC-based user and device authentication. The port-security is effective in limiting the numbers of clients passing through, so that network administrators can now construct highly secured corporate networks with time and effort considerably less than before.

- · Supports QoS and In/Out bandwidth control on each port
- · Traffic-policing policies on the switch port
- · DSCP remarking

Multicast

- · Supports IGMP Snooping v1, v2 and v3
- Supports MLD Snooping v1 and v2
- · Querier mode support
- · IGMP Snooping port filtering
- · MLD Snooping port filtering
- MVR (Multicast VLAN Registration)

Security

- IEEE 802.1x Port-based / MAC-based network access authentication
- Built-in RADIUS client to co-operate with the RADIUS servers
- · RADIUS / TACACS+ users access authentication
- IP-based Access Control List (ACL)
- · MAC-based Access Control List
- Source MAC / IP address binding
- · DHCP Snooping to filter untrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- · IP Source Guard prevents IP spoofing attacks
- IP address access management to prevent unauthorized intruder

Management

- · Switch Management Interfaces
 - Console / Telnet Command Line Interface
 - Web switch management
 - SNMP v1 and v2c switch management
 - SSH / SSL and SNMP v3 secure access
- Four RMON groups (history, statistics, alarms, and events)
- IPv6 IP Address / NTP / DNS management
- Built-in Trivial File Transfer Protocol (TFTP) client



Application

Optimized Design for Metropolitan Area Network

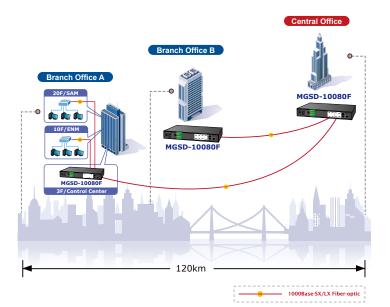
By means of improving the technology of Optical Fiber Ethernet with high-flexible, high-extendable and easy-installation features, the MGSD-10080F offers the data exchange speed of Optical Fiber up to 1Gbps, and the distance of Gigabit Optical Fiber up to 120km. It supports service providers, such as ISP and Telecom, to install Metropolitan Area Network (MAN) based on Fiber technology to the WAN Internet Service.

Metropolitan Area Network Application



Excellent Solution of Core / Department Switch

With 10 Gigabit ports, the MGSD-10080F is able to connect up to 10 edge switches in the Ethernet environment. Moreover, the MGSD-10080F provides 20 Gigabit per second switch fabric and high bandwidth for backbone connection. The MGSD-10080F is an excellent choice of core layer switch for a Gigabit network.



- · BOOTP and DHCP for IP address assignment
- Firmware upload / download via HTTP / TFTP
- DHCP Relay
- DHCP Option 82
- User Privilege levels control
- NTP (Network Time Protocol)
- Link Layer Discovery Protocol (LLDP) Protocol
- SFP-DDM (Digital Diagnostic Monitor)
- Cable Diagnostic technology provides the mechanism to detect and report potential cabling issues
- Reset button for system reboot or reset to factory default
- PLANET Smart Discovery Utility for deploy management



Product Specifications

Mode		
SFPmini-GBIC Sicis 8 1000Base SXLVIXE SFP Interfaces, from port 1 to port 8		MGSD-10080F
S-Primini-GRU Sids Compatible with 100Base Ft X SFP Console Port 1 x R.1451-ch.RS-222 actial port (115200, 8, N, 1) Shitch Architecture Store-and-Forward Throughbut (sacket per second) 14 Mulypo @ 64 Bytes packet Shitch Architecture Shore-and-Forward Throughbut (sacket per second) 14 Mulypo @ 64 Bytes packet Shitch Architecture Shore-and-Forward Throughbut (sacket per second) 14 Mulypo @ 64 Bytes packet Shitch Architecture Shore-and-Forward Shitch Back Shore-and-Forward Shitch Back Shore-and-Forward BEE 802.35 Pause Frame for Full-Duplex Back pressure for Half-Duplex Back pressure for Half-Duplex Jumbo Framo Shitch Shitch Back pressure for Half-Duplex Back pressure for Half-Duplex Shitch Back pressure for	Hardware Specification	0.4000D
Copper Portors 2 10 / 1001/1000/Base T R.4.15 Auto AMD/MOTO yors Conscile Port 1 x R.4.15 - GR-2012 serial port (11 5200, 8, N, 1) Switch Architecture Store and Forward 1 / 1500, 8, N, 1) Switch Architecture Store and Forward 1 / 1500, 8, N, 1) Switch Architecture Conscious 1 / 1500, 9, N, 10 / 1500, 9, N, 1	SFP/mini-GBIC Slots	
Console Port 1 x R.J.45-lon.Rs.232 serial port (115200, 8, N, 1) Sinten Achitecture Store according Store and Froward Throughput (secket per second) 1 £ 80 pps @ 450 yets packet Shirton Fabric 200 bys. from-blocking 200 bys. fro	Copper Ports	
Switch Architecture Throughput (packet per second) 14 Mbps @ 48Pyse packet Switch Fabric 200Pps / non-blocking Address Table 3Ke mittes, automate source address learning and ageing Share Data Buffer 4Mbbs Share Data Buffer 3Mc 14Mbs Share Data Buffer 4Mbbs Back pressure for Half-Duplex Back pressure for Half-Duplex Jumbo Frame 3Rchytes Seese Button 3Six 15x 435 mm, 10 high Weight 3Six 15x 435 mm, 10 high Weight 4Mbbs System Pabric Pressure for Half-Duplex 1Six 435 mm, 10 high Weight 5Six 435 mm, 10 high Weight 5Six 435 mm, 10 high Weight 6Mbbs 1Six 435 mm, 10 high Weight 6Mbbs 1Six 435 mm, 10 high Weight 7Six 435 mm, 10 high Weight 1Six 4	• • • • • • • • • • • • • • • • • • • •	
Sinter Bable 2006ps / non-blocking Address Table 8 ke ntrities, automatic source address learning and ageing Share Data Buffer 4 AMbits 4 AMbits Flow Control Back pressure for Half-Duplex Back Pathon 9 Kithytes 9 10 seconds: System Reboot 9 10 seconds: System Reboot 9 10 seconds: Factory Default Demensions (W.x. D.x. H.) 1661g 1 1661g		
Address Table Share Data Buffer Affibite Control EEE 802.3x Pause Frame for Full-Duplex Back pressure for Half-Duplex Back pressure for Half-Duplex Share Data Buffer Affibite Affibite Share Data Buffer EEE 802.3x Pause Frame for Full-Duplex Back pressure for Half-Duplex Back pressure for Half-Duplex Reset Button 5 10 seconds: Factory Default Dimensions (W x D x H) 330 x 155 x 43.5 mm, 1U high Weight 1015 Weight 1016 System: PWR (Green) DC 1 (Green) DC 1 (Green) DC 2 (Green) PWR (Green) DC 2 (Green) PER Gyabit Profix 100 LNKACT (Green) PER Gyabit Profix 100 LNKACT (Green) PROFICE (Green) POWER Requirements AC 100-240V, 5000th 2.5 tab. Alarm One Follow Capture (D): Level 0: 24V-2.1V (60.1V) Level 1: 2.1V-24V (63.0V) Input Load to 24V DC. 10mA max. 2 biglial Duplut (D): -Level 0: 24V-2.1V (10.1V) Level 1: 2.1V-24V (40.1V) Input Load to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 2 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 biglial Duplut (D): -Qene collector to 24V DC. 10mA max. 3 b	Throughput (packet per second)	14.8Mpps @ 64Bytes packet
Share Data Buffer 4Mbls IEEE 802.3s Pause Frame for Full-Duplex Beack pressure for Half-Duplex 9Kbytes 9Kbytes 9Kbytes 9Kbytes 150 seconds: System Reboot 10 seconds: Factory Default 1601g 16	Switch Fabric	20Gbps / non-blocking
Flow Control BEES 802.3.* Pause Frame for Full-Duplex Back pressure for Half-Duplex Sack pressure for Half-Duplex Seconds: Sectory Default	Address Table	8K entries, automatic source address learning and ageing
Back pressure for Half-Duplex	Share Data Buffer	4Mbits
Reset Button - 5 seconds: System Reboot - 10 seconds: Factory Default Dimensions (W.x.D.x.H) 330 x.155 x.43.5 mm, U high Weight ELD Indicator Ring Oreen) D.C.1 (Green) D.C.1 (Green) D.C.1 (Green) Per Gigabit Ports: 100 LNIK/ACT (Green) Per Gigabit Ports: 100 LNIK/ACT (Green) Power Consumption Max. 11.2 Watts / 38.2 BTU (AC input) Max. 10.0 Watts / 38.9 BTU (DC input) Level 1: 2.1V-24V (20.1V) Reput Level 1: 2.4V-2.1V (20.1V) Level 1: 2.1V-24V (20.1V) Level 1: 2.1V-24V (20.1V) Level 1: 2.1V-24V (20.1V) Reput Level 1: 2.1V-	Flow Control	
Name Status 10 seconds: Factory Default	Jumbo Frame	
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System: PWR (Green) DC 1 (Green) DC 2 (Green) Fault Alarm (Green) Ring Owner' (Green) Ring Owner	Dimensions (W x D x H)	
LED Indicator LED In		
Power Requirements AC 100-240V, 50/60Hz 0.15A -36V DC @ 0.3A, Range: -36V ~ -72V DC Alarm One relay output for power failure. Alarm Relay current carry ability: 1A @ DC 24V DI/DO DO DI/DO DO DO DO DO DO DO DO DO DO	LED Indicator	PWR (Green) DC 1 (Green) DC 2 (Green) Fault Alarm (Green) Ring* (Green) Ring Owner* (Green) Per Gigabit Ports: 100 LNK/ACT (Orange)
Power Requirements -36V DC @ 0.3A, Range: -36V ~ -72V DC	Power Consumption	
DI/DO 2 Digital Input (DI): Level 0: -24V~2.1V (±0.1V)	Power Requirements	
DI/DO 2 Digital Input (DI): Level 0: -24V~2.1V (±0.1V)	Alarm	One relay output for power failure. Alarm Relay current carry ability: 1A @ DC 24V
Port disable / enable Auto-Negotiation 10/100/1000Mbps full and half duplex mode selection Flow Control disable / enable Bandwidth control on each port Power saving mode control Port Status Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status TX / RX / Both 1 to 1 monitor 802.1Q Tagged Based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4094 VLAN IDs Link Aggregation IEEE 802.3ad LACP / Static Trunk	DI/DO	Level 1: 2.1V~24V (±0.1V) Input Load to 24V DC, 10mA max.
Auto-Negotiation 10/100/1000Mbps full and half duplex mode selection Flow Control disable / enable Bandwidth control on each port Power saving mode control Port Status Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status T X / RX / Both 1 to 1 monitor 802.1Q Tagged Based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4094 VLAN IDs IEEE 802.3ad LACP / Static Trunk	Layer 2 Function	
Port Mirroring TX / RX / Both 1 to 1 monitor 802.1Q Tagged Based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4094 VLAN IDs Link Aggregation IEEE 802.3ad LACP / Static Trunk	Port Configuration	Auto-Negotiation 10/100/1000Mbps full and half duplex mode selection Flow Control disable / enable Bandwidth control on each port
Port Mirroring 1 to 1 monitor 802.1Q Tagged Based VLAN, up to 255 VLAN groups Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration) Up to 255 VLAN groups, out of 4094 VLAN IDs Link Aggregation 1 to 1 monitor 802.1Q Tagged Based VLAN groups Private VLAN groups MAC-based VLAN groups MAC-based VLAN Protocol-based VLAN Protocol-based VLAN Voice VLAN Protocol-based VLAN Voice VLAN IDs Link Aggregation 1 to 1 monitor	Port Status	
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Link Aggregation	VLAN	Q-in-Q tunneling Private VLAN Edge (PVE) MAC-based VLAN Protocol-based VLAN Voice VLAN MVR (Multicast VLAN Registration)
	Link Aggregation	



QoS	Traffic classification based, Strict priority and WRR 8-Level priority for switching - Port Number - 802.1p priority - 802.1Q VLAN tag - DSCP/TOS field in IP Packet
IGMP Snooping	IGMP (v1/v2/V3) Snooping, up to 255 multicast Groups IGMP Querier mode support
MLD Snooping	MLD (v1/v2) Snooping, up to 255 multicast Groups MLD Querier mode support
Access Control List	IP-based ACL / MAC-based ACL Up to 123 entries
Bandwidth Control	Per port bandwidth control Ingress: 500Kb~1000Mbps Egress: 500Kb~1000Mbps
Management	
Basic Management Interfaces	Console, Telnet, Web Browser, SNMP v1, v2c and v3
Secure Management Interface	SSH, SSL, SNMP v3
SNMP MIBs	RFC-1213 MIB-II IF-MIB RFC-1493 Bridge MIB RFC-1643 Ethernet MIB RFC-2863 Interface MIB RFC-2665 Ether-Like MIB RFC-2819 RMON MIB (Group 1) RFC-2737 Entity MIB RFC-2618 RADIUS Client MIB RFC-2933 IGMP-STD-MIB RFC-3411 SNMP-Frameworks-MIB IEEE 802.1X PAE LLDP MAU-MIB
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1D Spanning tree protocol IEEE 802.1w Rapid Spanning tree protocol IEEE 802.1s Multiple Spanning tree protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication Network Control IEEE 802.1ab LLDP RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 21112 IGMP version 1 RFC 2236 IGMP version 2
Environment	
Operating	Temperature : -10 ~ 60 degrees C for DC power input 0 ~ 50 degrees C for AC power input Relative Humidity : 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)



Ordering Information

MGSD-10080F

8-Port 100/1000X SFP + 2-Port 10/100/1000T Managed Metro Ethernet Switch

Available Modules for MGSD-10080F

• 1000Mbps SFP transceiver modules

MGB-GT	SFP-Port 1000Base-T Module
MGB-SX	SFP-Port 1000Base-SX mini-GBIC module - 550m
MGB-SX2	SFP-Port 1000Base-SX mini-GBIC module - 2km
MGB-LX	SFP-Port 1000Base-LX mini-GBIC module - 10km
MGB-L30	SFP-Port 1000Base-LX mini-GBIC module - 30km
MGB-L50	SFP-Port 1000Base-LX mini-GBIC module - 50km
MGB-L70	SFP-Port 1000Base-LX mini-GBIC module - 70km
MGB-L120	SFP-Port 1000Base-LX mini-GBIC module - 120km
MGB-LA10	SFP-Port 1000Base-LX (WDM,TX:1310nm) mini-GBIC module - 10km
MGB-LB10	SFP-Port 1000Base-LX (WDM,TX:1550nm) mini-GBIC module - 10km
MGB-LA20	SFP-Port 1000Base-LX (WDM,TX:1310nm) mini-GBIC module - 20km
MGB-LB20	SFP-Port 1000Base-LX (WDM,TX:1550nm) mini-GBIC module - 20km
MGB-LA40	SFP-Port 1000Base-LX (WDM,TX:1310nm) mini-GBIC module - 40km
MGB-LB40	SFP-Port 1000Base-LX (WDM,TX:1550nm) mini-GBIC module - 40km
MGB-TSX	SFP-Port 1000Base-SX mini-GBIC module - 550m (-40 ~ 75 degrees C)
MGB-TLX	SFP-Port 1000Base-LX mini-GBIC module - 10km (-40 ~ 75 degrees C)
MGB-TL30	SFP-Port 1000Base-LX mini-GBIC module - 30km (-40 ~ 75 degrees C)
MGB-TL70	SFP-Port 1000Base-LX mini-GBIC module - 70km (-40 ~ 75 degrees C)

• 100Mbps SFP transceiver modules

MFB-FX	SFP-Port 100Base-FX Transceiver (1310nm) - 2km
MFB-F20	SFP-Port 100Base-FX Transceiver (1310nm) - 20km
MFB-F40	SFP-Port 100Base-FX Transceiver (1310nm) - 40km
MFB-F60	SFP-Port 100Base-FX Transceiver (1310nm) - 60km
MFB-FA20	SFP-Port 100Base-BX Transceiver (WDM,TX:1310nm) - 20km
MFB-FB20	SFP-Port 100Base-BX Transceiver (WDM,TX:1550nm) - 20km
MFB-TFX	SFP-Port 100Base-FX Transceiver (1310nm) - 2km (-40 ~ 75 degrees C)
MFB-TF20	SFP-Port 100Base-FX Transceiver (1310nm) - 20km (-40 ~ 75 degrees C)

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