

24-Port 10/100/1000Mbps with 4 Shared SFP 802.3at PoE Managed Stackable Switch



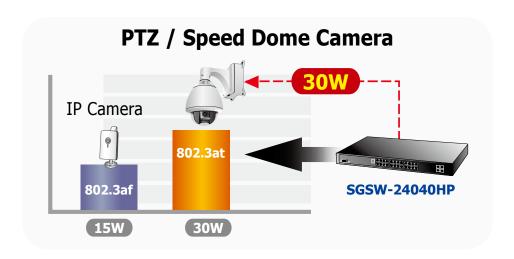
Centralized Power Management for Gigabit Ethernet Networking

To fulfill the needs of higher power required PoE network applications with Gigabit speed transmission, PLANET introduces new member in the SGSW-24040 Stackable Gigabit Ethernet Switch series- SGSW-24040HP, the 24-Port Gigabit High Power over Ethernet Managed Switch which features high performance Gigabit IEEE 802.3af PoE (Up to 15.4W) and IEEE 802.3at High-Power PoE (Up to 30.8W) on all ports. By supporting reliable stacking technology and advanced networking features, SGSW-24040HP also provides high scalability for current and future network infrastructure as it can flexibly work with PLANET SGSW series Gigabit Switch to meet the various networking requirements and simplify the network deployment and management.

30Watts Power over Ethernet

A maximum of **30.8 Watts** is available on the Gigabit ports of the SGSW-24040HP for powering PDs (Powered Device), with a maximum PoE delivery of 360 Watts for all ports to per device in order to satisfy the increasing needs of power consumption by powered devices. Providing Gigabit throughput and high power supply, the SGSW-24040HP optimizes the installation and power management of network devices such as 11n wireless access points (AP) with Gigabit PoE LAN port, security **PTZ (Speed Dome)** network video cameras, large screen PoE Video phones, thin-clients and etc.

IEEE 802.3af Application	IP Phone	Single-band Wireless AP	IP Camera
Power Consumption	Up to 7 Watts	Up to 7 Watts	Up to 12 Watts
IEEE 802.3at Application	Video Phone	Dual-band Wireless AP or WiMAX AP	Speed Dome IP Camera
Power Consumption	15~20 Watts	13~25 Watts	15~30 Watts



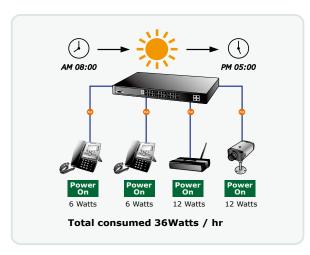
E-Mail / SNMP Trap Alarm

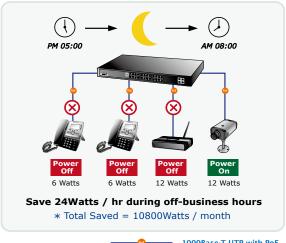
The SGSW-24040HP provides built-in SMTP and SNMP Trap alarm function that can send instant alarm to the administrators by email when errors happen. The errors like when the connected PD devices such as IP cameras or Wireless Access Point were changed or when the Ethernet cable broken or loose, the SGSW-24040HP would detect it and spontaneously send the error alarm to the assigned receiver or network management center. It also records when the error happens and the recovery status.



PoE Schedule for Energy Saving

Under the trend of energy saving worldwide and contribute to environment protection on the earth, the SGSW-24040HP can effectively control the power supply besides its capability of giving high watts power. The "PoE schedule" function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMB or Enterprise save power and money.





1000Base-T UTP with PoE

IPv6 Management

The SGSW-24040HP supports both IPv4 and IPv6 management functions. It works with original network structure (IPv4) and also supports the new network structure (IPv6) in the future. With easy and friendly management interfaces and plenty of management functions included, the SGSW-24040HP is the best choice for System Integrators to build the large wireless service and for SMB to connect with the IPv6 network.

Flexible Stacking Capability for Growing Networking

The SGSW-24040HP provides 2 dedicated High-Speed HDMI-like interfaces for stacking management. By applying the SGSW-24040HP, up to 16 units of stacking, 384 Gigabit PoE ports can be managed by a stacking group and additional ports and functionality can be added as needed. The 2 built-in stacking ports providing 5Gbps bandwidth and up to 20Gbps Bi-directional speed. It can handle extremely large amounts of data in a secure topology linking for backbone or high capacity network server with 68Gbps switching fabric per unit. The stacking technology also enables the chassis-based switches to be integrated into SGSW-24040 series Managed Switch without the expensive up-front cost.

Robust Layer 2 Features

The SGSW-24040HP can be programmed for advanced switch management functions such as dynamic Port link aggregation, Q-in-Q VLAN, private VLAN, Multiple Spanning Tree Protocol (MSTP), Layer 2 to Layer 4 QoS, bandwidth control and IGMP Snooping. The SGSW-24040HP provides 802.1Q Tagged VLAN, and the VLAN groups allowed will be maximally up to 255. Via aggregation of supporting ports, the SGSW-24040HP allows the operation of a high-speed trunk combining multiple ports. It enables maximum up to 12 groups of 16 ports for port link aggregation and supports fail-over as well.

Efficient and Secure Management

For efficient management, the SGSW-24040HP is equipped with console, WEB and SNMP management interfaces. With the built-in Web-Based management interface, the SGSW-24040HP offers an easy-to-use, platform-independent management and configuration facility. The SGSW-24040HP supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. For text-based management, the SGSW-24040HP can be accessed via Telnet and the console port. Moreover, the SGSW-24040HP offers secure remote management by supporting SSH, SSL and SNMPv3 connection which encrypt the packet content at each session.

Enhanced Security

The SGSW-24040HP offers comprehensive Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge. It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. Its protection mechanism also comprises of 802.1X Port-Based and MAC-Based user and device authentication. With the private VLAN function, communications between edge ports can be protected to ensure user privacy. The SGSW-24040HP net Security also provides DHCP Snooping, IP Source Guard and Dynamic ARP Inspection functions to prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrators can now construct highly secured corporate networks with considerably less time and effort than before.



Flexibility and Extension Solution

The two mini-GBIC slots built in the SGSW-24040HP support Dual-Speed, 100Base-FX and 1000Base-SX/LX SFP (Small Form-factor Pluggable) fiber-optic modules, that means, the administrator now can flexibly choose the suitable SFP transceiver according to the transmission distance or the transmission speed required. The distance can be extended from 550 meters (Multi-Mode fiber) up to above 10/50/70/120 kilometers (Single-Mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

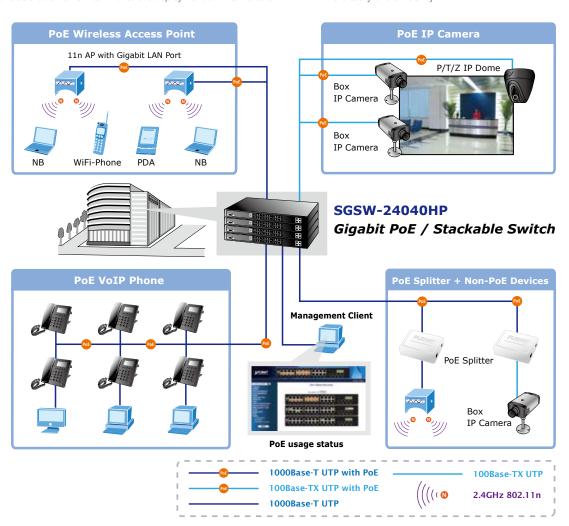
Easy Deployment

High power and high speed data switching are integrated into one unit and delivered over a single cable, the Gigabit PoE Switch also lowers the need for

APPLICATIONS

Department / Workgroup High-power PoE Switch

Providing up to 24-Port Gigabit high-power PoE, in-line power interface, the SGSW-24040HP High-Power PoE Switch can easily build a central-controlled power network with wireless Gigabit AP, IP phone system, or Mega-Pixel IP Camera system group for the enterprises. For instance, 24 IP cameras and wireless APs can be easily installed around the corner in the company for surveillance demands or a wireless roaming environment in the office. Without the power-socket limitation, the stackable PoE Switch makes the deployment of IP cameras or WLAN AP more easily and efficiently.



While video surveillance system becomes more and more important for visible security in the factory, warehouse, and public places, the IP cameras with PoE function would be a lot helpful for the surveillance deployment when the power outlet not easily found in the ceiling or in the outdoor. For example, in the factory operation or in the warehouse storage security, the PoE IP camera can be installed anywhere regardless of the restrictions of power outlet location. With the PoE Switch. SGSW-24040HP, as the central control manager and offering remote power monitoring via Web interface or SNMP trap and SNMP monitoring, the manager can get the PoE devices status and alert immediately. The PoE IP cameras could also be controlled remotely, which increases the administrator management efficiency and improve the productivity.



KEY FEATURES

PHYSICAL PORT

- 24-Port 10/100/1000Base-T Gigabit RJ-45 with IEEE 802.3af / 802.3at PoE Injector
- 4 100/1000Base-X mini-GBIC/SFP slots, shared with Port-21 to Port-24
- 2 HDMI-like 5GbE Stacking interfaces
- RS-232 DB9 console interface for Switch basic management and setup

POWER OVER ETHERNET

- Complies with IEEE 802.3af / 802.3at Power over Ethernet End-Span PSE
- Up to 23 IEEE 802.3af devices powered
- Up to 11 IEEE 802.3at devices powered
- Supports PoE Power up to 30.8 Watts for each PoE ports
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m
- PoE Management
 - Total PoE power budget control
 - Per Port PoE function enable/disable
 - PoE Port Power feeding priority
 - Per PoE port power limit
 - PD classification detection

STACKING

- Hardware stack up to 16 units and 384 Gigabit ports
- Single IP address stack management
- Stacking architecture supports Chain and Ring mode
- Plug and Play connectivity
- Mirror across stack
- Link Aggregation groups spanning multiple switches in a stack
- Hardware learning with MAC table synchronization across stack

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, broadcast storm control and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Supports **VLAN**
 - IEEE 802.1Q Tagged VLAN
 - Up to 255 VLANs groups, out of 4041 VLAN IDs
 - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Private VLAN Edge (PVE)
- 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 12 trunk groups, up to 16 ports per trunk group
 - Up to 32Gbps bandwidth (Duplex Mode)
- Provide Port Mirror (many-to-1)
- Port Mirroring to monitor the incoming or outgoing traffic on a particular port

QUALITY OF SERVICE

- Ingress Shaper and Egress Rate Limit per port bandwidth control
- · 4 priority queues on all switch ports
- Traffic classification:
 - IFFF 802 1n CoS
 - TOS / DSCP / IP Precedence of IPv4/IPv6 packets
 - IP TCP/UDP port number
 - Typical network application
- Strict priority and Weighted Round Robin (WRR) CoS policies
- Supports QoS and In/Out bandwidth control on each port
- Traffic-policing policies on the switch port
- QoS Control List Wizard makes QoS creation and configuration easier and more quickly
- DSCP remarking
- Voice VLAN

MULTICAST

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

SECURITY

- IEEE 802.1X Port-Based / MAC-Based network access authentication
- Built-in RADIUS client to co-operate with the RADIUS servers
- TACACS+ login users access authentication
- 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 un-trusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- IP Source Guard prevents IP spoofing attacks
- Auto DoS rule to defend DoS attack
- IP address access management to prevent unauthorized intruder





MANAGEMENT

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

- Firmware upload/download via HTTP / TFTP
- DHCP Relay and Relay Option 82
- User Privilege levels control
- NTP (Network Time Protocol)
- Link Layer Discovery Protocol (LLDP) Protocol
- Cable Diagnostic technology provides the mechanism to detect and report suspicious cabling issues
- Reset button for system reboot or reset to factory default
- PLANET Smart Discovery Utility for deploy management
- ICMPv6

SPECIFICATION

Product	oduct 24-Port 10/100/1000Mbps with 4 Shared SFP 802.3at PoE Manage Stackable Switch		
Model		SGSW-24040HP	
Hardware Sp	esification	303W-24040FF	
Copper Ports		24 10/ 100/1000Page T. D.L. 4F. Auto MDI/MDL V. norte with JEFF 202 2st DaF injector	
Copper Ports		24 10/ 100/1000Base-T RJ-45 Auto-MDI/MDI-X ports with IEEE 802.3at PoE injector	
SFP/mini-GBIC Slots		4 1000Base-SX/LX/BX SFP interfaces, shared with Port-21 to Port-24 100Base-FX SFP transceiver compatible	
Console		1 x RS-232 DB9 serial port (115200, 8, N, 1)	
Switch Processing Scheme		Store-and-Forward	
Switch Fabri		68Gbps	
Address Tab	e	8K entries	
Share Data E	uffer	1392 kilobytes	
Fl C+		IEEE 802.3x Pause Frame for Full-Duplex	
Flow Contro		Back pressure for Half-Duplex	
Jumbo Fram	e	10Kbytes	
LED		System: Power, Master, FAN Alert, PoE Power Alert Ports: 10/100/1000 Link/Act, PoE In-Use, SFP Link, Stack Port Link	
Reset Buttor		< 5 sec: System reboot > 10 sec: Factory Default	
Dimension (\	V x D x H)	440 x 300 x 44.5 mm, 1U height	
Weight		4.5kg	
Power Consu	ımption	Max. 432 Watts / 1473 BTU	
Power Requi	rement	AC 100~240V, 50/60Hz	
ESD Protecti	on	6KV DC	
Power over I	thernet		
PoE Standar	d	IEEE 802.3af / 802.3at Power over Ethernet / PSE	
PoE Power S	vlaqu	End-Span	
PoE Power C	• • •	Per Port 52V DC. Max. 30.8 Watts	
Power Pin As	·	1/2(+), 3/6(-)	
PoE Power B	_	360 Watts	
	Number of PD @7Watts	24	
PoE Ability	Number of PD @15.4Watts	23	
TOL Ability	Number of PD @30.8Watts	11	
Stacking			
Stacking Por	ts	Two 5Gbps HDMI-Like interface	
Stacking Nur		16	
Stacking Nai		10Gbps (Full-Duplex)	
Stacking bar Stack ID Disp		7-Segment LED Display (1~9, A~F,0)	
Stack Topology		Ring / Chain / Back-to-Back stack	





Basic Management Interfaces	Console, Telnet, Web Browser, SNMPv1, v2c
Secure Management Interfaces	SSH, SSL, SNMP v3
	Port disable/enable
	Auto-Negotiation 10/100/1000Mbps full and half duplex mode selection
Port Configuration	Flow Control disable / enable
	Bandwidth control on each port
	802.1Q Tagged Based VLAN
	Port-Based VLAN
VLAN	
VLAN	Q-in-Q
	Private VLAN Edge (PVE)
	Up to 256 VLAN groups, out of 4094 VLAN IDs
	IEEE 802.1D Spanning Tree
Spanning Tree Protocol	IEEE 802.1w Rapid Spanning Tree
spanning free Protocol	IEEE 802.1s Multiple Spanning Tree
	Up to 8 MST instances
Link Aggregation	IEEE 802.3ad LACP / Static Trunk
LIIK Aggregation	Supports 12 groups of 16-Port trunk support
	Traffic classification based, Strict priority and WRR
	4-Level priority for switching
	- Port Number
QoS	- 802.1p priority
	- 802.1Q VLAN tag
	DSCP/TOS field in IP Packet Policy-Based QoS
	IGMP (v1/v2/v3) Snooping, up to 255 multicast Groups
IGMP Snooping	
	IGMP Querier mode support
Access Control List	IP-Based ACL / MAC-Based ACL
	Up to 256 entries
	RFC-1213 MIB-II
	IF-MIB
	RFC-1493 Bridge MIB
	RFC-1643 Ethernet MIB
	RFC-2863 Interface MIB
	RFC-2665 Ether-Like MIB
CALLAD A ALD	RFC-2737 Entity MIB
SNMP MIBs	RFC-2618 RADIUS Client MIB
	RFC-2933 IGMP-STD-MIB
	RFC3411 SNMP-Frameworks-MIB
	IEEE 802.1X PAE
	LLDP
	MALI-MIR
	MAU-MIB Power over Ethernet
Standards Conformance	MAU-MIB Power over Ethernet
Standards Conformance	Power over Ethernet
Standards Conformance Regulation Compliance	Power over Ethernet FCC Part 15 Class A, CE
	Power over Ethernet FCC Part 15 Class A, CE IEEE 802.3 10Base-T
	Power over Ethernet FCC Part 15 Class A, CE IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX
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	Power over Ethernet FCC Part 15 Class A, CE IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000Base-T
	Power over Ethernet FCC Part 15 Class A, CE IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000Base-T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP
	Power over Ethernet FCC Part 15 Class A, CE IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000Base-T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1D Spanning tree protocol
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Regulation Compliance	Power over Ethernet FCC Part 15 Class A, CE IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000Base-T 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
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Environment		
Operating	Temperature: Relative Humidity:	0 ~ 50 Degree C 20 ~ 95% (non-condensing)
Storage	Temperature: Relative Humidity:	-40 ~ 70 Degree C 20 ~ 95% (non-condensing)

ORDERING INFORMATION

SGSW-24040HP	24-Port 10/100/1000Mbps with 4 Shared SFP 802.3at PoE Managed Stackable Switch / 360 Watts

RELATIVE PRODUCTS

SGSW-24040	24-Port 10/100/1000Mbps with 4 Shared SFP Managed Stackable Switch
SGSW-24040R	24-Port 10/100/1000Mbps with 4 Shared SFP Managed Stackable Switch / -48V DC Redundant Power
SGSW-24240	24-Port 100/1000 SFP Slots with 8 Shared TP Managed Stackable Switch
SGSW-24240R	24-Port 100/1000 SFP Slots with 8 Shared TP Managed Stackable Switch / -48V DC Redundant Power
SGSW-24040P	24-Port 10/100/1000Mbps with 4 Shared SFP PoE Managed Stackable Switch / 220W
SGSW-24040P4	24-Port 10/100/1000Mbps with 4 Shared SFP PoE Managed Stackable Switch / 380W

ACCESSORIES

CB-STX50	0.5 Meter 5Gbps Stacking Cable with Crossed-HDMI connector
CB-STX200	2 Meter 5Gbps Stacking Cable with Crossed-HDMI connector

RELATIVE POE PRODUCTS

ICA-H312	H.264 25-meter IR Internet Camera
ICA-H610	H.264 Indoor CCD Internet Camera
ICA-HM100	Wired H.264 Mega-Pixel IP Camera
ICA-HM120	H.264 Mega-Pixel Box IP Camera
ICA-HM125	2 Mega-Pixel H.264 Box IP Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM131	H.264 Full-HD Fixed Dome IP Camera
ICA-HM135	H.264 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM240	H.264 Mega-Pixel Vandal Proof Pan/Tilt IP Camera
POE-151S	IEEE 802.3af Power Over Ethernet Splitter
POE-152S	IEEE 802.3af Power over Ethernet Splitter
POE-161S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E101	IEEE 802.3af Power over Ethernet Extender
VIP-156PE	802.3af PoE SIP Analog Telephone Adapter
VIP-254PT	SIP PoE IP Phone
VIP-255PT	Multi-Language PoE IP Phone
VIP-360PT	Enterprise PoE IP Phone
VIP-560PE / VIP-56EXT	Professional PoE IP Phone with Expansion Function
VIP-560PT	Professional PoE IP Phone
WAP-4033PE	54Mbps Wireless PoE Access Point
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-3000PE	802.11n Enterprise PoE Access Point



AVAILABLE MODULES FOR SGSW-24040HP

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
MGB-GT	SFP-Port 1000Base-T Module
MGB-SX	SFP-Port 1000Base-SX mini-GBIC module) - 220/550m
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
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

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