

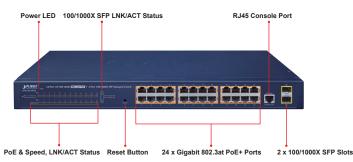
GS-4210-24P2S

24-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Switch



Cost-optimized Managed PoE+ Switch with Advanced L2/L4 Switching and Security

PLANET GS-4210-24P2S is an ideal Gigabit PoE Switch which provides costeffective advantage to local area network and is widely accepted in the SMB office network. It offers **intelligent Layer 2 data packet switching and management functions, friendly web user interface and stable operation**. The model complies with **IEEE 802.3at Power over Ethernet Plus (PoE+)** at an affordable price. The GS-4210-24P2S is equipped with **24 10/100/1000BASE-T** Gigabit Ethernet ports and 2 **100/1000BASE-X** SFP interfaces with inner power system. Its **24** Gigabit Ethernet ports integrated with 802.3at PoE+ injector function on all ports. It offers a rack-mountable, affordable, safe and reliable power solution for SMBs deploying Power over Ethernet networks, or requiring enhanced data security and network traffic management.



Cybersecurity Network Solution to Minimize Security Risks

The GS-4210-24P2S supports SSHv2 and TLS protocols to provide strong protection against advanced threats. It includes a range of cybersecurity features such as DHCP Snooping, IP Source Guard, dynamic ARP Inspection Protection, 802.1x port-based network access control, RADIUS and TACACS+ user accounts management, SNMPv3 authentication, and so on to complement it as an all-security solution.

Physical Port

- 24-port 10/100/1000BASE-T Gigabit RJ45 copper
- 2 100/1000BASE-X mini-GBIC/SFP slots
- RJ45 console interface for switch basic management and setup
- · Reset button for system factory default and reboot

Switching

- Hardware-based 10/100Mbps, half/full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation, and auto MDI/MDI-X
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and back
 pressure for half duplex operation
- 9K jumbo frame
- · Automatic address learning and address aging
- Supports CSMA/CD protocol

Power over Ethernet

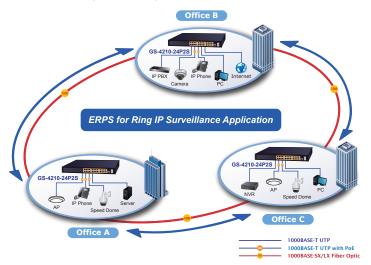
- · Complies with IEEE 802.3at Power over Ethernet Plus
- · Complies with IEEE 802.3af Power over Ethernet
- · Up to 24 ports of IEEE 802.3af/802.3at devices powered
- · Supports PoE Power up to 30.8 watts for each PoE port
- · 300-watt PoE budget
- · Auto detects powered device (PD)
- · Circuit protection prevents power interference between ports
- Remote power feeding up to 100 meters in standard mode and 250m in extend mode
- · PoE Management
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE Port Power feeding priority
 - Per PoE port power limitation
 - PoE delay
 - PD classification detection
- Intelligent PoE features
 - PoE usage threshold control
 - PD alive check
- PoE schedule





Redundant Ring, Fast Recovery for Critical Network Applications

The GS-4210-24P2S supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced **ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)** technology, Spanning Tree Protocol (802.1s MSTP) into customer's network to enhance system reliability and uptime in various environments.



Built-in Unique PoE Functions for Powered Devices Management

As the PoE managed switch for surveillance, wireless and VoIP networks, the GS-4210-24P2S features special PoE management functions:

- PD alive check
- Scheduled power recycling
- PoE schedule
- PoE usage monitoring
- PoE Extension

Intelligent Powered Device Alive Check

The GS-4210-24P2S can be configured to monitor connected PD (powered device) status in real time via ping action. Once the PD stops working and responding, the GS-4210-24P2S will resume the PoE port power and bring the PD back to work. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.

Layer 2 Features

- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)
- High performance Store and Forward architecture, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Protocol VLAN
 - Voice VLAN
 - Private VLAN
 - Management VLAN
 - GVRP
- Supports Spanning Tree Protocol
 - STP (Spanning Tree Protocol)
 - RSTP (Rapid Spanning Tree Protocol)
 - MSTP (Multiple Spanning Tree Protocol)
 - STP BPDU Guard, BPDU Filtering and BPDU Forwarding
- Supports Link Aggregation
 - IEEE 802.3ad Link Aggregation Control Protocol (LACP)
 - 1 LACP group, up to 2 ports per LACP group
 - Cisco ether-channel (static trunk)
 - 1 trunk group, up to 2 ports per trunk group
- Provides port mirror (many-to-1)
- · Loop protection to avoid broadcast loops
- · Supports ERPS (Ethernet Ring Protection Switching)

Quality of Service

- · Ingress/Egress Rate Limit per port bandwidth control
- Storm Control support
 - Broadcast/unknown unicast/unknown multicast
- Traffic classification
 - IEEE 802.1p CoS
 - TOS/DSCP/IP precedence of IPv4/IPv6 packets
- · Strict priority and Weighted Round Robin (WRR) CoS policies

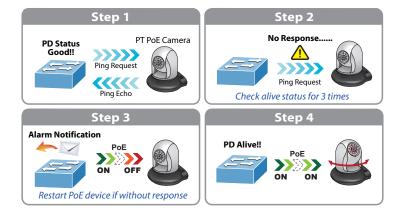
Multicast

- Supports IPv4 IGMP snooping v2 and v3
- Supports IPv6 MLD snooping v1, v2
- · IGMP querier mode support
- IGMP snooping port filtering
- · MLD snooping port filtering

Security

Authentication





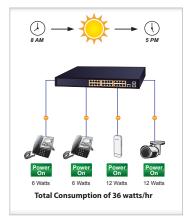
Scheduled Power Recycling

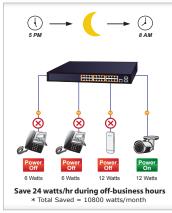
The GS-4210-24P2S allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.



PoE Schedule for Energy Saving

Under the trend of energy saving worldwide and contributing to environmental protection, the GS-4210-24P2S 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 SMBs or enterprises save power and money. It also increases security by powering off PDs that should not be in use during non-business hours.





- 1000BASE-T UTP with Pol

- IEEE 802.1X port-based network access authentication
- Built-in RADIUS client to co-operate with the RADIUS servers
- DHCP Option 82
- RADIUS/TACACS+ login user access authentication
- Access Control List
 - IPv4/IPv6 IP-based ACL
 - IPv4/IPv6 IP-based ACE
 - MAC-based ACL
 - MAC-based ACE
- MAC Security
- Static MAC
- MAC Filtering
- · Port security for source MAC address entries filtering
- · DHCP snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- · IP source guard prevents IP spoofing attacks
- DoS attack prevention

Management

- · IPv4 and IPv6 dual stack management
- Switch management interface
 - Web switch management
 - Console/Telnet Command Line Interface
 - SNMP v1 and v2c switch management
 - SSHv2, TLSv1.2 and SNMP v3 secure access
- · User privilege levels control
- Built-in Trivial File Transfer Protocol (TFTP) client
- · BOOTP and DHCP for IP address assignment
- System maintenance
 - Firmware upload/download via HTTP/TFTP
 - Configuration upload/download through web interface
 - Dual images
 - Hardware reset button for system reboot or reset to factory default
- SNTP Network Time Protocol
- Cable diagnostics
- · Link Layer Discovery Protocol (LLDP) and LLDP-MED
- · SNMP trap for interface link up and link down notification
- · Event message logging to remote Syslog server
- Four RMON groups (history, statistics, alarms and events)
- PLANET Smart Discovery Utility for deployment management
- · PLANET NMS system for deployment management

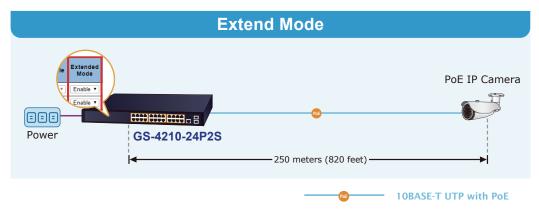


PoE Usage Monitoring

Via the power usage chart in the web management interface, the GS-4210-24P2S enables the administrator to monitor the status of the power usage of the connected PDs in real time. Thus, it greatly enhances the management efficiency of the facilities.

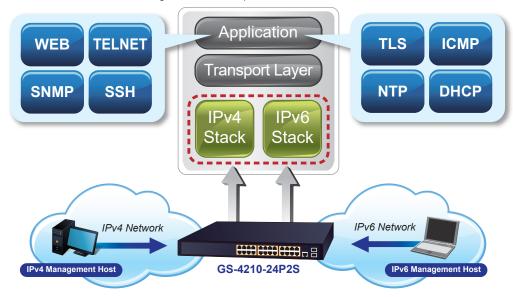
802.3at PoE+ Power and Ethernet Data Transmission Distance Extension

In the "Extend" operation mode, the GS-4210-24P2S operates on a per-port basis at 10Mbps duplex operation but can support 20-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, the GS-4210-24P2S provides an additional solution for 802.3at/af PoE distance extension, thus saving the cost of Ethernet cable installation.



IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the GS-4210-24P2S helps the SMBs to step in the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.



Robust Layer 2 Features

The GS-4210-24P2S can be programmed for advanced switch management functions such as dynamic port link aggregation, 802.1Q VLAN and Q-in-Q VLAN, Multiple Spanning Tree protocol (MSTP), loop and BPDU guard, IGMP snooping, and MLD snooping. Via the link aggregation, the GS-4210-24P2S allows the operation of a high-speed trunk to combine with multiple ports such as a 4Gbps fat pipe, and supports fail-over as well. Also, the Link Layer Discovery Protocol (LLDP) is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.

Efficient Traffic Control

The GS-4210-24P2S is loaded with robust QoS features and powerful traffic management to enhance services to business-class data, voice, and video solutions. The functionality includes broadcast/multicast/unicast **storm control**, per port **bandwidth control**, 802.1p/CoS/IP DSCP QoS priority and remarking. It guarantees the best performance at VoIP and video stream transmission, and empowers the enterprises to take full advantages of the limited network resources.



Powerful Security

PLANET GS-4210-24P2S offers comprehensive **IPv4/IPv6** 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 **802.1X port-based** user and device authentication, which can be deployed with RADIUS to ensure the port level security and block illegal users. With the protected port function, communication between edge ports can be prevented to guarantee user privacy. Furthermore, Port security function allows to limit the number of network devices on a given port. The network administrators can now construct highly-secure corporate networks with considerably less time and effort than before.

Friendly and Secure Management

For efficient management, the GS-4210-24P2S is equipped with Command line, Web and SNMP management interfaces.

- With the built-in **Web-based** management interface, the GS-4210-24P2S offers an easy-to-use, platform-independent management and configuration facility.
- For text-based management, it can be accessed via Telnet and the console port.
- By supporting the standard SNMP protocol, the switch can be managed via any SNMP-based management software.

Moreover, the GS-4210-24P2S offers secure remote management by supporting SSHv2, TLSv1.2 and SNMPv3 connections which encrypt the packet content at each session.



Flexible Extension Solution

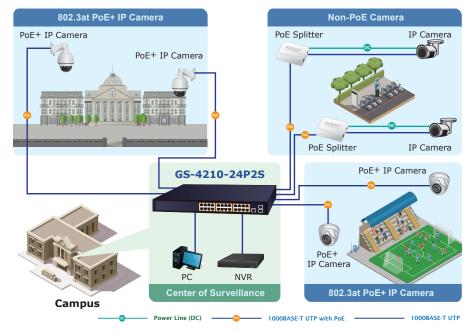
The two mini-GBIC slots built in the GS-4210-24P2S are compatible with the **100BASE-FX/1000BASE-SX/LX** SFP (Small Form-factor Pluggable) fiber transceiver to uplink to backbone switch and monitor center in long distance. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and to 10/20/40/60/80/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.



Applications

Perfectly-integrated Solution for PoE IP Surveillance

The GS-4210-24P2S brings an ideal, secure surveillance system at a lower total cost. The GS-4210-24P2S provides 24 10/100/1000Mbps 802.3at PoE+ ports able to feed sufficient PoE power for 24 IEEE 802.3af/IEEE 802.3at PoE IP cameras at the same time. It is also able to connect with one 16-channel NVR or two 8-channel NVR systems, uplink to the backbone switch and the monitoring center. With such a high-performance switch architecture, the recorded video files from the PoE IP cameras can be saved in the NVR system to enable the administrators to control and monitor the surveillance images both in the local LAN and the remote sites.



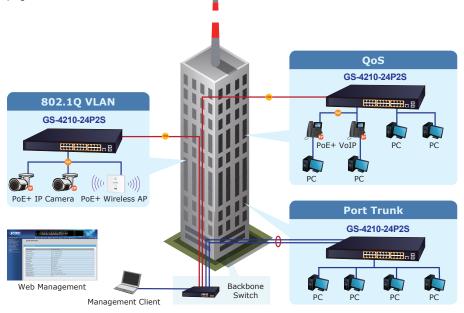
Department/Workgroup PoE Network

Providing 24 PoE in-line power interfaces, the GS-4210-24P2S can easily build a power that centrally controls IP phone system, IP camera system and wireless AP group for enterprises. The GS-4210-24P2S delivers full ports of 802.3af/at compliant Gigabit Ethernet network connectivity with high-performance and cost-effective advantages for the increasing number of PoE IP telephones, PoE IP cameras, PoE wireless access points and other devices applied at the edge of the small or medium enterprise network. The GS-4210-24P2S improves the network efficiency and protects the network clients with the powerful features:

- Layer 2 to Layer 4 security
- QoS/802.1Q VLAN/static trunk/LACP
- 802.1x port-based and MAC-based network access authentication security

1000BASE-T UTP

Multicast IGMP snooping



1000BASE-T UTP with PoE

1000BASE-SX/LX Fiber Optic



Specifications

Specifications	
Product	GS-4210-24P2S
Hardware Specifications	
Hardware Version	2
Copper Ports	24 x 10/100/1000BASE-T RJ45 Auto-MDI/MDI-X Ports
PoE Injector Port	24 802.3af/802.3at PoE Injector Ports
SFP/mini-GBIC Slots	2 100/1000BASE-X SFP interfaces, supporting 100/1000Mbps dual mode
Console	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Console	
Reset Button	< 5 sec: System reboot
The second Fee	> 5 sec: Factory default
Thermal Fan	2
Power Requirements	100~240V AC, 50/60Hz, 4A (max.)
Power Consumption/Dissipation	Max. 330 watts/1122 BTU
Dimensions (W x D x H)	445 x 207 x 45 mm (1U height)
Weight	2.8kg
ESD Protection	Yes
Enclosure	Metal
	System:
	Power (Green)
LED	10/100/1000T RJ45 Interfaces (Port 1 to Port 24):
	1000 LNK/ACT (Green), 10/100 LNK/ACT (Orange), PoE (Orange)
	100/1000Mbps SFP Interfaces (Port 25 to Port 26):
	1000 LNK/ACT (Green), 100 LNK/ACT (Orange)
Switching	
Switch Architecture	Store-and-Forward
Switch Fabric	52Gbps/non-blocking
Switch Throughput@64 bytes	38.6Mpps @64 bytes
MAC Address Table	8K entries
Shared Data Buffer	4.1 megabits
	IEEE 802.3x pause frame for full duplex
Flow Control	Back pressure for half duplex
Jumbo Frame	9216 bytes
Power over Ethernet	32 TO BY163
	IEEE 802.3af Power over Ethernet/PSE
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE
	Per Port 52V DC, 300mA. Max. 15.4 watts (IEEE 802.3af)
PoE Power Output	Per Port 52V DC, 600mA. Max. 30 watts (IEEE 802.3at)
PoE Power Budget	300 watts
Number of PDs, 7 watts	24
Number of PDs, 15.4 watts	19
	9
Number of PDs, 30 watts	PD Alive Check
	Scheduled Power Recycling
DoE Management	PoE Schedule
PoE Management	PoE Usage Monitoring
Lavor 2 Eurotices	PoE Extension
Layer 2 Functions	TV /DV /hoth
Port Mirroring	TX/RX/both
	Many-to-1 monitor
	802.1Q tagged VLAN
	Up to 256 VLAN groups, out of 4094 VLAN IDs
	802.1ad Q-in-Q tunneling
VLAN	Voice VLAN
	Protocol VLAN
	Private VLAN (Protected port)
	GVRP
	Management VLAN
Link Aggregation	IEEE 802.3ad LACP supports 1 group of 2-port trunk and static trunk supports 1 group of 2-port trunk
	IEEE 802.1D Spanning Tree Protocol (STP)
Spanning Tree Protocol	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
	IGMP (v2/v3) snooping
IGMP Snooping	IGMP querier
	Up to 256 multicast groups
MLD Snooping	IPv6 MLD (v1/v2) snooping, up to 256 multicast groups
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	8 manning IDs to 8 level priority queues							
	- Port number	8 mapping IDs to 8 level priority queues						
	- 802.1p priority							
QoS	- DSCP/IP precedence of IPv4/IPv6 packets							
	Traffic classification based, strict priority and WRR							
	Ingress/Egress Rate Limit per port bandwidth control							
Ring	Supports ERPS, and complies with ITU-T G.8032							
Security Functions								
Access Control List	IPv4/IPv6 IP-based ACL/MAC-based ACL							
	IEEE 802.1X – Port-based authentication	IEEE 802.1X – Port-based authentication						
Port Security	Built-in RADIUS client to co-operate with RADIUS se	erver						
	RADIUS/TACACS+ user access authentication							
	IP-MAC port binding							
MAC Security	MAC filter							
	Static MAC address							
	DHCP Snooping and DHCP Option82							
	STP BPDU guard, BPDU filtering and BPDU forward	ing						
Enhanced Security	DoS attack prevention							
	ARP inspection							
	IP source guard							
Management Functions								
	RS232 Console							
Basic Management Interfaces	Web browser							
C C	Telnet							
	SNMP v1, v2c							
Secure Management Interfaces	SSHv2, TLSv1.2, SNMPv3							
	Firmware upgrade by HTTP/TFTP protocol through E	thernet network						
	LLDP protocol							
System Management	SNTP							
	PLANET Smart Discovery Utility							
	PLANET NMS System							
Event Management	Remote/Local Syslog System log							
	RFC 1213 MIB-II RFC 1215 Generic Traps							
	RFC 1493 Bridge MIB							
	RFC 2674 Bridge MIB Extensions							
SNMP MIBs	RFC 2737 Entity MIB (Version 2)							
	RFC 2819 RMON (1, 2, 3, 9)							
	RFC 2863 Interface Group MIB							
	RFC 3635 Ethernet-like MIB							
	RFC 3621 Power Ethernet MIB							
Standards Conformance								
Regulatory Compliance	FCC Part 15 Class A, CE							
	IEEE 802.3 10BASE-T	IEEE 802.3af Power over Ethernet						
	IEEE 802.3u 100BASE-TX/100BASE-FX	IEEE 802.3at Power over Ethernet Plus						
	IEEE 802.3z Gigabit SX/LX	IEEE 802.3az Energy Efficient Ethernet (EEE)						
	IEEE 802.3ab Gigabit 1000T	RFC 768 UDP						
	IEEE 802.3x flow control and back pressure	RFC 793 TFTP						
	IEEE 802.3ad port trunk with LACP	RFC 791 IP						
Standards Compliance	IEEE 802.1D Spanning Tree Protocol	RFC 792 ICMP						
otandardo compliance	IEEE 802.1w Rapid Spanning Tree Protocol	RFC 2068 HTTP						
	IEEE 802.1s Multiple Spanning Tree Protocol	RFC 1112 IGMP version 1						
	IEEE 802.1p Class of Service	RFC 2236 IGMP version 2						
	IEEE 802.1Q VLAN tagging	RFC 3376 IGMP version 3						
	IEEE 802.1x Port Authentication Network Control	RFC 2710 MLD version 1						
	IEEE 802.1ab LLDP	RFC 3810 MLD version 2						
Environment		ITU G.8032 ERPS Ring						
Environment	Tomporoturo: 0., 50 do more 0							
Operating	Temperature: $0 \sim 50$ degrees C Bolotive Humidity: $5 \approx 0.5\%$ (pap condensing)							
	Relative Humidity: 5 ~ 95% (non-condensing)							
Storage	Temperature: $-10 \sim 70$ degrees C Relative Humidity: 5 $\sim 95\%$ (non-condensing)							
	Relative Humidity: 5 ~ 95% (non-condensing)							



Ordering Information

GS-4210-24P2S

24-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Switch

Related PoE Products

GS-4210-8P2T2S	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch
GS-4210-8P2S	8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Switch
GS-4210-8T2S	8-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch
POE-161S	IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)
POE-162S	IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)
IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E201	IEEE 802.3at Power over Gigabit Ethernet Extender
POE-E202	1-Port 802.3at PoE+ to 2-Port 802.3af/at Gigabit PoE Extender

Available 1000Mbps Modules

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT		1000	Copper		100m		0 ~ 60 degrees C
MGB-SX(V2)	YES	1000	LC	Multi Mode	550m	850nm	0 ~ 60 degrees C
MGB-SX2(V2)	YES	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MGB-LX(V2)	YES	1000	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MGB-L40	YES	1000	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MGB-L80	YES	1000	LC	Single Mode	80km	1550nm	0 ~ 60 degrees C
MGB-L120(V2)	YES	1000	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C

Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-LA10(V2) YES	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C	
MGB-LB10(V2)	TES	1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA20(V2)	YES	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB20(V2)	1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C	
MGB-LA40(V2) MGB-LB40(V2) YES	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 degrees C	
	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	0 ~ 60 degrees C	
MGB-LA80 MGB-LB80 YES	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	0 ~ 60 degrees C	
	169	1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	0 ~ 60 degrees C

Available 100Mbps Modules

Fast Ethernet Transceiver (100BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-FX	100	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MFB-F20	100	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MFB-F40	100	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MFB-F60	100	LC	Single Mode	60km	1310nm	0 ~ 60 degrees C
MFB-F120	100	LC	Single Mode	120km	1310nm	0 ~ 60 degrees C

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MFB-FA20	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MFB-FB20	100	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C

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