

Layer 2+ Multiple Gigabit + 4-Port 10G SFP+ Stackable Managed Switch

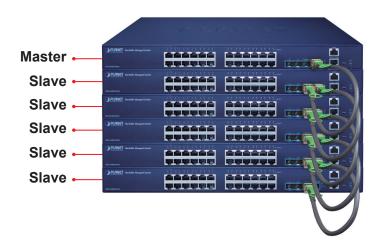


PLANET SGS-5240 series is a Layer 2+ Stackable Managed Gigabit Switch that provides high-density performance, **Layer 3 static routing** with **10Gbps uplink** interfaces delivered in a rugged, strong case.

The administrator can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the 10G network efficiently. Besides, with 128/178Gbps switching fabric, the SGS-5240 series can handle extremely large amounts of data in a secure topology linking to backbone or high capacity servers for ISP and enterprise VoIP, video streaming, and multicast applications.

High Reliability Hardware Stacking

Two of the 10G SFP+ ports are used to connect several SGS-5240 series, enabling to build a virtually logical facility. The SGS-5240 series gives the enterprises, service providers and telecoms flexible control over port density, uplinks and switch stack performance. The SGS-5240 series can be connected as a ring for redundancy and ensures that data integrity is retained even if one switch in the stack fails. You can even hot-swap switches without disrupting the network, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands.



Physical Ports

- · 24/48 10/100/1000BASE-T RJ45 copper ports
- 24 100/1000BASE-X SFP slots (SGS-5240-20S4C4XR)
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- RJ45 to DB9 console interface for switch basic management and setup
- · One 10/100BASE-TX Management port

Stacking Features

- · IP Stacking
 - Connects with stack member via Gigabit TP, SFP and 10G SFP+ interfaces
 - Single IP address management, supporting up to 16
 IP units stacked together
- · Hardware Stacking
 - Virtualized multiple SGS-5240 switch series stacked into one logical device
 - Connects with stack member via assigned 10G SFP+ interfaces
 - Single IP address stack management, supporting up to 6 hardware units stacked together
 - Stacking architecture supports redundant ring mod

IP Routing Features

- IPv4/IPv6 hardware static routing
- · Routing interface provides per VLAN routing mode

Laver 2 Features

- · Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad) supported
 - GVRP for dynamic VLAN management
 - Protocol-based VLAN
 - MAC-based VLAN
 - IP subnet-based VLAN
 - Voice VLAN
- · Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (static trunk)
- Supports Spanning Tree Protocol
 - STP, IEEE 802.1D (Classic Spanning Tree Protocol)
 - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)

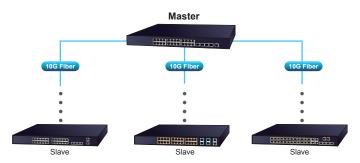


Central IP Stacking Management

Positioned as the distribution or aggregation layer switch for large networks, the SGS-5240 series supports IP stacking function that helps network managers to easily configure up to 16 switches in the same series via one single IP address instead of connecting and setting each unit one by one. The IP Stacking technology groups PLANET SGS-5240 switch series together to enable centralized management through a single unit, regardless of physical location or switch type, as long as they are connected to the same local network.

IP Stacking/Cluster

Up to 16 units with SGS-5240 Series

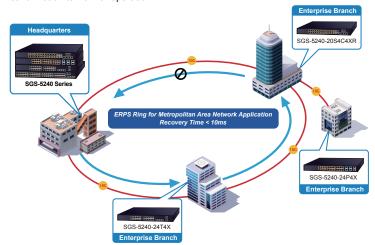


High Performance 10Gbps Ethernet Capacity

The four SFP+ slots built in the SGS-5240 series support **dual speed** and **10GBASE-SR/LR** or **1000BASE-SX/LX**. With its 4 ports, 10Gbps and 1Gbps Ethernet link capability, the administrator now can flexibly choose the suitable SFP/ SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. The SGS-5240 Series provides broad bandwidth and powerful processing capacity.

Redundant Ring, Fast Recovery for Critical Network Applications

The SGS-5240 series 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 and Spanning Tree Protocol (802.1s MSTP) into customer's network to enhance system reliability and uptime in harsh environments. In a certain simple Ring network, the recovery time could be less than 50ms to quickly bring the network back to normal operation.



- MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol, spanning tree by VLAN)
- Supports BPDU & root guard
- Port mirroring to monitor the incoming or outgoing traffic on a particular port (many to one)
- Supports G.8032 ERPS (Ethernet Ring Protection Switching)
- · Loop protection to avoid broadcast loops
- Link Layer Discovery Protocol (LLDP)
- Compatible with Cisco uni-directional link detection (UDLD) that monitors a link between two switches and blocks the ports on both ends of the link if the link fails at any point between the two devices

Quality of Service

- · Input and output rate limit per port bandwidth control
- · 8 priority queues on all switch ports
 - IEEE 802.1p CoS/DSCP/IP Precedence
 - VLAN ID
 - ACL
 - Policy-based ingress and egress QoS

Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3
- Supports IPv6 MLD snooping v1 and v2
- · Querier mode support
- · IPv4 IGMP snooping port filtering
- IPv6 MLD snooping port filtering
- MVR (Multicast VLAN Registration)

Security

- Authentication
 - IEEE 802.1x port-based/MAC-based network access authentication
 - IEEE 802.1x authentication with guest VLAN
 - Built-in RADIUS client to cooperate with the RADIUS servers
 - RADIUS/TACACS+ users access authentication
 - Guest VLAN assigns clients to a restricted VLAN with limited services
- Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
 - Time-based ACL
- 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



Layer 3 IPv4 and IPv6 VLAN Routing for Secure and Flexible Management

The SGS-5240 series supports IPv4/IPv6 VLAN routing feature which allows to cross over different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking application.

Strong Multicast

The SGS-5240 series supports abundant multicast features. In Layer 2, it features IPv4 IGMPv1/v2/v3 snooping and IPv6 MLD v1/v2 snooping. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detection functions, the SGS-5240 series provides great application experience for customers.

Robust Layer 2 Features

The SGS-5240 series can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, Multiple Spanning Tree Protocol and bandwidth control. This switch provides 802.1Q tagged VLAN, Q-in-Q, voice VLAN and GVRP Protocol functions. By supporting port aggregation, the SGS-5240 series allows the operation of a high-speed trunk combined with multiple ports.



Powerful Network Security

The SGS-5240 series 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 802.1x Port-based, MAC-based and web-based user and device authentications.

Advanced IP Network Protection

The SGS-5240 series 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-secure corporate networks with considerably less time and effort than before.

Efficient and Secure Management

For efficient management, the SGS-5240 series is equipped with console, Web and SNMP management interfaces.



 IP address access management to prevent unauthorized intruder

Management

- · IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
- Console and Telnet Command Line Interface
- HTTP web switch management
- SNMP v1 and v2c switch management
- SSHv2, SSLv3 and SNMP v3 secure access
- SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification
- Built-in Trivial File Transfer Protocol (TFTP) client
- · BOOTP and DHCP for IP address assignment
- · System Maintenance
 - Firmware upload/download via HTTP
 - Reset button for system reboot or reset to factory default
 - Dual images
- DHCP Functions:
- DHCP Relay
- DHCP Option 82
- · User Privilege levels control
- · Network Time Protocol (NTP) and SNTP
- Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues
 - ICMPv6/ICMPv4 remote ping
- Syslog remote alarm
- · System Log

Power over Ethernet (SGS-5240-24P4X)

- Complies with IEEE 802.3at Power over Ethernet Plus
- Up to 24 ports of IEEE 802.3at PoE devices powered
- · Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- · Remote power feeding up to 100 meters
- · PoE management
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE port power feeding priority
 - PD classification detection



- With the built-in **Web-based** management interface, the SGS-5240 series 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.
- For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.

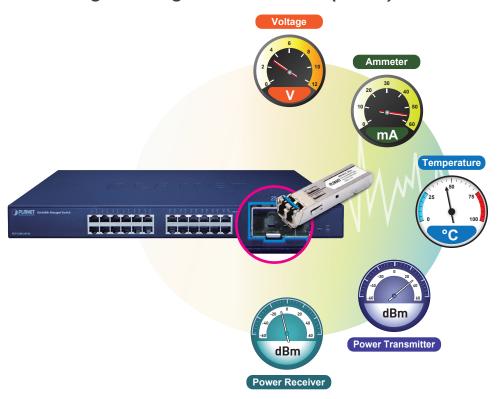
Moreover, the SGS-5240 series offers secure remote management by supporting SSHv2 and SSLv3 connection which encrypts the packet content at each session.



Intelligent SFP Diagnosis Mechanism

The SGS-5240 series supports SFP-DDM (Digital Diagnostic Monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

Digital Diagnostic Monitor (DDM)





Applications

High Availability Mesh Networking Solution for Big Data System

By means of improving the technology of Optical Fiber Ethernet with highly-flexible, highly-extendable and easy-to-install features, the SGS-5240 series offers up to 128/176Gbps data exchange speed via Optical Fiber interface and the transmission distance can be extended to 120km.

The SGS-5240 series features strong, rapid, self-recovery capability to prevent interruptions and external intrusions. It incorporates IEEE 802.1s MSTP (Multiple Spanning Tree Protocol, spanning tree by VLAN) into customer's automation network to enhance system reliability and uptime. The SGS-5240 series is the ideal solution for data centers, service providers and telecoms to build redundant connection and establish high bandwidth for Big Data server farm.

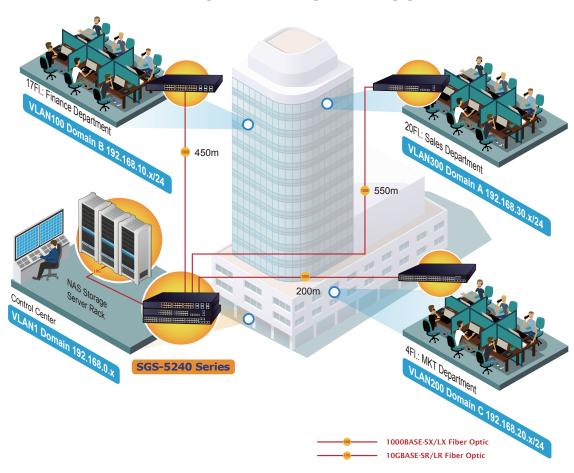
Excellent Solution to Core/Data Center Security and QoS Switch

The SGS-5240 series performs 128/176Gbps non-blocking switch fabric so it can easily provide a local 10Gbps high bandwidth Ethernet network for the backbone of your department. With the four built-in SFP+ ports, the SGS-5240 series provides the uplink to the backbone network through the 10G Ethernet LR/SR SFP+ modules. It further improves the network efficiency and protects the network clients by offering the security and QoS features.

Layer 3 VLAN Routing

With the built-in robust Layer 3 traffic routing protocols, the SGS-5240 series ensures reliable routing between VLANs and network segments. The routing protocols can be applied via VLAN interface. The SGS-5240 series is certainly a cost-effective and ideal solution for enterprises.

VLAN Routing + 10G Uplink Applications





Specifications

Product	SGS-5240-24T4X	SGS-5240-24P4X	SGS-5240-20S4C4XR	SGS-5240-48T4X			
Hardware Specifications							
10/100/1000BASE-T RJ45 Ports	24	24	4 (combo)	48			
1000BASE-X SFP Slots	- 20+4 -						
10GBASE-X SFP+ Slots	4 10GBASE-SR/LR SFP+ interfaces Compatible with 1000BASE-SX/LX/BX SFP transceiver						
Console	-						
CPU	1 x RJ45-to-RS232 serial port (115200, 8, N, 1) ARM A9 800MHz						
RAM	512Mbytes						
Flash Memory	64Mbytes						
Dimensions (W x D x H)	440 x 280 x 44 mm	440 x 280 x 44 mm	440 x 280 x 44 mm	440 x 330 x 44 mm			
Weight	3.0 kg	4.1 kg	3.3 kg	4.0 kg			
Power Consumption	21 watts/71.65 BTU	4.1 kg 432 watts/1474 BTU	43 watts/146.72 BTU	45 watts/153.55 BTU			
·							
Power Requirements - AC	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz			
Power Requirements - DC	-	-	DC 36-72V	-			
Fan	-	2	1	1			
Switching	Otana and famous						
Switch Architecture	Store-and-forward	4000hn=/=== h1::11::	1000hng/=== bl : 11 :	476Chapless blocks			
Switch Fabric	128Gbps/non-blocking	128Gbps/non-blocking	128Gbps/non-blocking	176Gbps/non-blocking			
Switch Throughput	95.23Mpps	95.23Mpps	95.23Mpps	130.95Mpps			
Address Table	16K MAC address table w	itn auto learning function					
ARP Table	1024						
ACL Table	900						
Shared Data Buffer	1.5MB						
Jumbo Frame	9KB						
Flow Control	Back pressure for half dup IEEE 802.3x pause frame						
Power over Ethernet Specifications							
PoE Standard	-	IEEE 802.3at Power over Ethernet Plus PSE Backward compatible with IEEE 802.3af PoE	-	-			
PoE Power Supply Type	_	End-span	_	_			
1 OE 1 Ower Supply Type		Per port 54V DC,	-	-			
PoE Power Output	-	maximum 30 watts	-	-			
Power Pin Assignment	-	1/2(+), 3/6(-)	-	-			
PoE Power Budget	-	370 watts (max.)	-	-			
Layer 3 Functions							
IP Interfaces	Max. 32 VLAN interfaces						
Routing Table	IPv4 256 entries IPv6 128 entries						
Routing Protocols	IPv4 hardware static routing	ng					
Touting Frotocols	IPv6 hardware static routing	ng					
Layer 2 Functions							
Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable						
	Port loopback detect						
Port Status		duplex mode, link status, flow	control status and auto nego	otiation status			
Port Mirroring	TX/RX/Both Remote port mirror (RSPAN)						
	Many-to-1 monitor						
VLAN	IEEE 802.1Q tagged based VLAN, up to 4K VLAN groups IEEE 802.1ad Q-in-Q VLAN stacking/tunneling IEEE 802.1v Protocol-based VLAN Port-based VLAN MAC-based VLAN IP Subnet-based VLAN Voice VLAN GVRP for VLAN management, up to 256 VLAN						
	OVI 101 VE/114 managem	ap to 200 V 2/114					



	IEEE 802.1D Spanning Tree Protocol (STP)
	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
Spanning Tree Protocol	IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
opariting free Freedom	BPDU Guard, BPDU filtering and BPDU transparent
	Root Guard
	STP-based loopback detection
	IPv4 IGMP v1/v2/v3 snooping
	IPv4 Querier mode support
	IGMP Filtering and IGMP Throttling
	IGMP Proxy reporting
Multicast	IGMP mroute-forward mode
	Up to 255 multicast groups
	IPv6 MLD v1/v2 snooping
	Up to 255 multicast groups
	Multicast VLAN Register (MVR), supports 5 multicast VLANs
	IEEE 802.3ad Ling Aggregation Control Protocol (LACP)
	Static trunk link aggregation
	Supports 26 groups with 8 ports per trunk group
Link Aggregation	Up to 80Gbps bandwidth (full duplex mode)
	Load Balance Algorithm:
	- Source IP/destination IP/Source + destination IP - Source MAC/destination MAC/Source + destination MAC
Storm Control	Broadcast/Multicast/Unicast storm control
	Rate: 64Kbpss-10,000Mbps
	Input/Output/Both
Bandwidth Control	Per port bandwidth control
	Gigabit port: 64Kbpss-1,000Mbps
	10Gigabit port: 64Kbpss-10,000Mbps
	8 priority queues on all switch ports
	Scheduling for priority queues
	- Weighted Round Robin (WRR)
	- Strict priority
QoS	- Hybrid (DRR/WRR + strict)
	Traffic classification: - IEEE 802.1p CoS/DSCP/IP Precedence
	- VLAN ID
	- ACL
	- Policy-based ingress and egress QoS
Ring	ITUT G.8032 ERPS v1 and v2
Security Functions	TIOT G.0002 ERFS VI aliu VZ
Security Functions	Supports Standard and Evpanded ACI
	Supports Standard and Expanded ACL - P-based ACL
	- MAC-based ACL
	- ARP ACL
	- Time-based ACL
	ACL based on:
	- MAC Address
Access Control List	- IPv4/IPv6 IP Address
	- Ethertype
	- Protocol-number/UDP
	- sport/dport
	- DSCP
	- 802.1p Priority
	Up to 900 entries
	Port security
	Supports static MAC + port binding
	Defend against DoS or TCP attacks
Security	DHCP Snooping, DHCP Option 82
	IP source guard
	Dynamic ARP inspection
	Command line authority control based on user levels
A A A	RADIUS client
AAA	TACACS+ client



	IEEE 802.1x port-based network access control MAC-based authentication
Network Access Control	Web authentication
	Local/RADIUS authentication
Management Functions	
	Console and Telnet
System Configuration	Web browser
	SNMP v1, v2c
O Marris and Interference	IPv4/IPv6 SSHv2, SSLv3, SNMPv3
Secure Management Interfaces	Maximum 8 sessions for SSH and telnet connection
	IPv4 and IPv6 dual stack management
	SNMP MIB and TRAP
	SNMP RMON 1, 2, 3, 9 four groups
	Firmware upgrade by HTTP/TFTP/FTP protocol through Ethernet network
	Configuration upload/download through HTTP/TFTP/FTP protocol
System Management	Supports dual images and multiple configuration files
	Supports IEEE 802.1ab LLDP protocol
	NTP/SNTP client
	RADIUS authentication for IPv4/IPv6 login user name and password
	Security IP safety net management function: avoid unlawful landing at nonrestrictive area
	Remote Syslog
Event Management	System log
	SMTP
IP Clustering	16 members
	SGS-5240-24T4X
ID OL MARKE ON WARRING TO A	SGS-5240-24P4X
IP Clustering Compatibility List	SGS-5240-20S4C4XR
	SGS-5240-48T4X
Hardwara Ctacking	6 members max.
Hardware Stacking	Last 2 10G SFP+ slots are functioned as Stacking Up and Down interfaces
Hardware Stacking Compatibility List	Require the same models for hardware stacking
	RFC 1213 MIB-II
	RFC 1215 Internet Engineering Task Force
	RFC 1271 RMON
	RFC 1354 IP-Forwarding MIB
	RFC 1493 Bridge MIB
	RFC 1643 Ether-like MIB
	RFC 1907 SNMP v2
	RFC 2011 IP/ICMP MIB
	RFC 2012 TCP MIB
SNMP MIBs	RFC 2013 UDP MIB
S.t	RFC 2096 IP forward MIB
	RFC 2233 if MIB
	RFC 2452 TCP6 MIB
	RFC 2454 UDP6 MIB
	RFC 2465 IPv6 MIB
	RFC 2466 ICMP6 MIB
	RFC 2573 SNMP v3 notify
	RFC 2574 SNMP v3 vacm
	RFC 2674 Bridge MIB Extensions (IEEE 802.1Q MIB)
	RFC 2674 Bridge MIB Extensions (IEEE 802.1P MIB)
Standard Conformance Regulatory Compliance	FCC Part 15 Class A, CE



	IEEE 802.3 10BASE-T				
	IEEE 802.3u 100BASE-TX				
	IEEE 802.3z Gigabit 1000BASE-SX/LX				
	IEEE 802.3ab Gigabit 1000BASE-T				
	IEEE 802.3ae 10Gb/s Ethernet				
	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 802.1ad Q-in-Q VLAN stacking/tunneling				
Standards Compliance	IEEE 802.1v Protocol-based VLAN				
	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 1112 IGMP v1				
	RFC 2236 IGMP v2				
	RFC 3376 IGMP v3				
	RFC 2710 MLD v1				
	FRC 3810 MLD v2				
	ITU-T G.8032 ERPS Ring				
Environments					
Operating	Temperature: 0 ~ 50 degrees C				
Operating	Relative Humidity: 5 ~ 90% (non-condensing)				
Storago	Temperature: -10 ~ 70 degrees C				
Storage	Relative Humidity: 5 ~ 90% (non-condensing)				

Ordering Information

SGS-5240-24T4X	Layer 2+ 24-Port 10/100/1000T + 4-Port 10G SFP+ Stackable Managed Switch
SGS-5240-24P4X	Layer 2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch
SGS-5240-20S4C4X4XR	Layer 2+ 20-Port 100/1000X SFP + 4-Port Gigabit TP/SFP + 4-Port 10G SFP+ Stackable Managed Switch with 48V redundant power
SGS-5240-48T4X	Layer 2+ 48-Port 10/100/1000T + 4-Port 10G SFP+ Stackable Managed Switch

Available Modules

10Gigabit Ethernet Transceiver (10GBASE-X SFP+)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MTB-RJ	10G	Copper		30m		0 ~ 70 degrees C
MTB-SR	10G	LC	Multi Mode	300m	850nm	0 ~ 60 degrees C
MTB-LR	10G	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C
MTB-TSR	10G	LC	Multi Mode	Up to 300m	850nm	-40 ~ 75 degrees C
MTB-TLR	10G	LC	Single Mode	10km	1310nm	-40 ~ 75 degrees C

10Gbps SFP+ (10GBASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MTB-LA20	10G	WDM(LC)	Single Mode	20km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB20	10G	WDM(LC)	Single Mode	20km	1330nm	1270nm	0 ~ 60 degrees C
MTB-LA40	10G	WDM(LC)	Single Mode	40km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB40	10G	WDM(LC)	Single Mode	40km	1330nm	1270nm	0 ~ 60 degrees C
MTB-LA60	10G	WDM(LC)	Single Mode	60km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB60	10G	WDM(LC)	Single Mode	60km	1330nm	1270nm	0 ~ 60 degrees C



Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT	1000	Copper		100m		0 ~ 60 degrees C
MGB-SX	1000	LC	Multi Mode	550m	850nm	0 ~ 60 degrees C
MGB-SX2	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MGB-LX	1000	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C
MGB-L40	1000	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MGB-L80	1000	LC	Single Mode	80km	1550nm	0 ~ 60 degrees C
MGB-L120	1000	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C
MGB-TSX	1000	LC	Multi Mode	550m	850nm	-40 ~ 75 degrees C
MGB-TLX	1000	LC	Single Mode	10km	1310nm	-40 ~ 75 degrees C
MGB-TL40	1000	LC	Single Mode	40km	1310nm	-40 ~ 75 degrees C
MGB-TL80	1000	LC	Single Mode	80km	1550nm	-40 ~ 75 degrees C
MGB-L120(V2)	YES	1000	LC	Single Mode	120km	0 ~ 60 degrees C

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

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.		
MGB-LA10	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C		
MGB-LB10	1000	WDIVI(LO)	Siligie Wode	TOKITI	1550nm	1310nm			
MGB-LA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C		
MGB-LB20	1000	VVDIVI(LC)	Siligle Mode	ZUKIII	1550nm	1310nm	0 ~ 60 degrees C		
MGB-LA40	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 degrees C		
MGB-LB40	1000	WDIVI(LC)	Siligle Mode	40KIII	1550nm	1310nm	0 ~ 60 degrees C		
MGB-LA60	1000	WDM(LC)	Cinala Mada	60km	1310nm	1550nm	0 ~ 60 degrees C		
MGB-LB60	1000	WDM(LC) Single N	VVDIVI(LC)	Single Mode	Sirigie Mode	OUKIII	1550nm	1310nm	0 ~ 60 degrees C
MGB-TLA10	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	-40 ~ 75 degrees C		
MGB-TLB10	1000	VVDIVI(LC)	Siligle Mode	IUKIII	1550nm	1310nm	-40 ~ 75 degrees C		
MGB-TLA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	40 - 75 dogrado C		
MGB-TLB20	1000	VVDIVI(LC)	Siligle Mode	ZUKIII	1550nm	1310nm	-40 ~ 75 degrees C		
MGB-TLA40	4000	MDM(LC) Cir	O' and a Manda	40km	1310nm	1550nm	40 - 75 dogrado C		
MGB-TLB40	1000	WDM(LC)	Single Mode	408111	1550nm	1310nm	-40 ~ 75 degrees C		
MGB-TLA60	1000	WDM(LC)	Single Mede	60km	1310nm	1550nm	-40 ~ 75 degrees C		
MGB-TLB60	1000	VVDIVI(LC)	Single Mode	OUKIII	1550nm	1310nm	-40 ~ 75 degrees C		

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