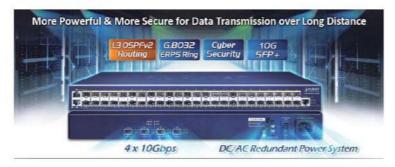


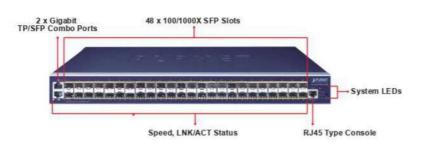
# L3 46-Port 100/1000BASE-X SFP + 2-Port Gigabit TP/SFP + 4-Port 10G SFP+ Managed Switch



# 10Gbps Fiber and Multiple Dual Speed Fiber Ports Deliver High-speed Networking

PLANET GS-6320-46S2C4XR Layer 3 Managed Switch features 48 100/1000Mbps SFP ports, 2 shared RJ45 copper ports, 4 10G SFP+ ports and Layer 3 IP routing in a 19-inch metal housing that provides high-density performance. With 10Gbps uplink and 176Gbps switching fabric, the GS-6320-46S2C4XR greatly simplifies the tasks of handling 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.







### Physical Port

- 48 100/1000BASE-X mini-GBIC/SFP slots
- Two 10/100/1000BASE-T RJ45 copper ports, shared with Port-1 to Port-2
- 4 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- RS-232 RJ45 console interface for switch basic management and setup

# Layer 3 IP Routing Features

- · IP dynamic routing protocol supports OSPFv2
- · Routing interface provides per VLAN routing mode
- · Supports maximum 128 static routes and route summarization
- · Supports hardware-based wire-speed VLAN routing

# 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 eliminates erroneous packets to optimize the network bandwidth
- · Storm Control support
  - Broadcast/Multicast/Unknown unicast
- · Supports VLAN
  - IEEE 802.1Q tagged VLAN
  - Up to 255 VLANs groups, out of 4095 VLAN IDs
  - Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
  - Private VLAN Edge (PVE)
  - Port Isolation
  - MAC-based VLAN
  - IP Subnet-based VLAN
  - Protocol-based VLAN
  - VLAN Translation
  - Voice VLAN
  - GVRP (GARP VLAN Registration Protocol)
- · 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



# Layer 3 Dynamic Routing Support

The GS-6320-46S2C4XR enables the administrator to conveniently boost network efficiency by configuring Layer 3 IPv4/IPv6 VLAN static routing manually, and the OSPFv2 (Open Shortest Path First) settings automatically. The **OSPF** is an interior dynamic routing protocol for autonomous system based on link state. The protocol creates a database for link state by exchanging link states among Layer 3 switches, and then uses the Shortest Path First algorithm to generate a route table based on that database.

### Network with Cybersecurity Helps Minimize Security Risks

The GS-6320-46S2C4XR comes with enhanced cybersecurity to fend off cyberthreats and cyberattacks. Iit supports SSHv2, TLS and SSL protocols to provide strong protection against advanced threats. Served as a key point to transmit data to customer's critical equipment in a business network, the cybersecurity feature of the GS-6320-46S2C4XR protects the switch management and enhances the security of the mission-critical network without any extra deployment cost and effort.

### Redundant Ring, Fast Recovery for Critical Network Applications

The GS-6320-46S2C4XR 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), and redundant power input system into customer's automation network to enhance system reliability and uptime in harsh factory environments. In a certain simple Ring network, the recovery time could be less than 10ms to quickly bring the network back to normal operation.



# AC and DC Redundant Power to Ensure Continuous Operation

The GS-6320-46S2C4XR is equipped with one 100~240V AC power supply unit and one additional **36-60V DC** power supply unit for redundant power supply. A redundant power system is also provided to enhance the reliability with either AC or DC power supply unit. The redundant power system is specifically designed to handle the demands of high-tech facilities requiring the highest power integrity.

- 802.3ad Link Aggregation Control Protocol (LACP)
- Cisco ether-channel (static trunk)
- Maximum 26 trunk groups, up to 16 ports per trunk group
- · Provides port mirror (many-to-1)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- · Loop protection to avoid broadcast loops
- 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
- · Supports G.8032 ERPS (Ethernet Ring Protection Switching)

# 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
  - 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 policies on the switch port
- · DSCP remarking

# 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
- · Multicast VLAN Registration (MVR) support

# 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

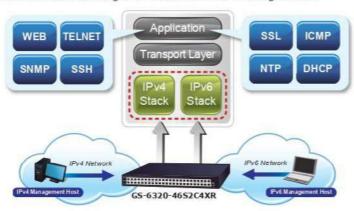




**Dual Power Input with Auto Failover** 

#### Solution for IPv6 Networking

With the support for IPv6/IPv4 protocol, and easy and user-friendly management interfaces, the GS-6320-46S2C4XR is the best choice for IP surveillance, VoIP and wireless service providers to connect with the IPv6 network. It also helps SMBs to step in the IPv6 era with the lowest investment and without having to replace the network facilities even though ISPs establish the IPv6 FTTx edge network.



## User-friendly Secure Management

For efficient management, the GS-6320-46S2C4XR is equipped with console, web and SNMP management interfaces.

- With the built-in web-based management interface, the GS-6320-46S2C4XR offers an easy-to-use, platform-independent management and configuration facility.
- The GS-6320-46S2C4XR supports SNMP and it can be managed via any management software based on the standard SNMP v1 and v2 protocols.
- For text-based management, it can be accessed via Telnet and the console port. For reducing product learning time, the GS-6320-46S2C4XR offers Ciscolike command and customer doesn't need to learn new command from these switches.

Moreover, the GS-6320-46S2C4XR offers remote secure management by supporting SSH, TLS and SNMPv3 connection which can encrypt the packet content at each session.



- · Access Control List
- 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
- IP address access management to prevent unauthorized intruder

## Management

- · IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
  - Web switch management
  - Console/Telnet Command Line Interface
  - SNMP v1 and v2c switch management
  - SSHv2, TLSv1.2 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
- . IPv6 IP Address/NTP/DNS management
- 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 Relay
- DHCP Option82
- DHCP Server
- User Privilege levels control
- NTP (Network Time Protocol)
- UPnP
- · Link Layer Discovery Protocol (LLDP) and LLDP-MED
- · IEEE 802.3ah OAM
- Network Diagnostic
  - SFP-DDM (Digital Diagnostic Monitor)
  - ICMPv6/ICMPv4 Remote Ping
  - Cable Diagnostic technology provides the mechanism to detect and report potential cabling issues
- · SMTP/Syslog remote alarm
- · System Log
- PLANET NMS System and Smart Discovery Utility for deployment management



# SMTP/SNMP Trap Event Alert

The GS-6320-46S2C4XR provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection, or the rebooting response.

# SMTP/SNMP Trap Event Alert



#### Robust Layer2 Features

The GS-6320-46S2C4XR can be programmed for advanced switch management function, such as dynamic port link aggregation, Q-in-Q VLAN, **Multiple Spanning**Tree Protocol (MSTP), Layer 2 to Layer 4 QoS, bandwidth control and IGMP/MLD snooping. The GS-6320-46S2C4XR allows the operation of a high-speed trunk combining multiple ports. Supporting 26 trunk groups, it enables a maximum of up to 16 ports per trunk and supports connection fail-over as well.



### Powerful Security

The GS-6320-46S2C4XR 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 port number or defined typical network applications. Its protection mechanism also comprises 802.1x Port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy.

# Enhanced Security and Traffic Control

The GS-6320-46S2C4XR 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 administrator can now build highly-secure corporate networks with considerably less time and effort than before.

# Flexible and Extendable 10Gb Ethernet Solution

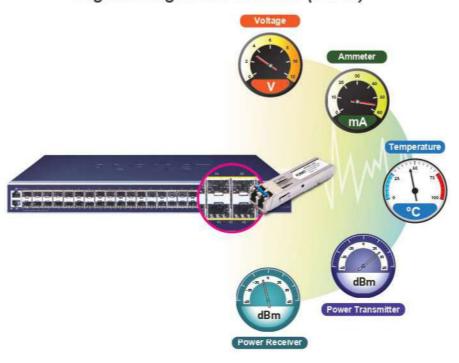
10G Ethernet is a big leap in the evolution of Ethernet. Each of the 10G SFP+ slots in the GS-6320-46S2C4XR supports **dual speed** and **10GBASE-SR/LR or 1000BASE-SX/LX**. With its 4-port, 10G Ethernet link capability and additional 4-port 1G Ethernet link capability, the administrator now can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. The GS-6320-46S2C4XR provides broad bandwidth and powerful processing capacity.



# Intelligent SFP Diagnosis Mechanism

The GS-6320-46S2C4XR supports **SFP-DDM (Digital Diagnostic Monitor)** function that greatly helps network administrator to easily monitor real-time parameters of the SFP transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

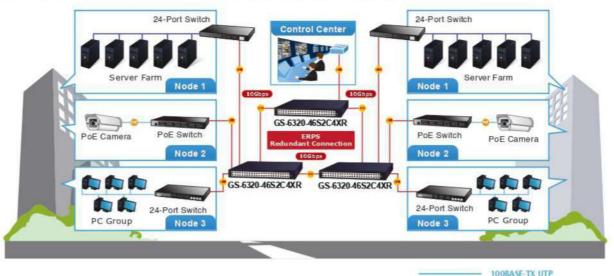
# Digital Diagnostic Monitor (DDM)



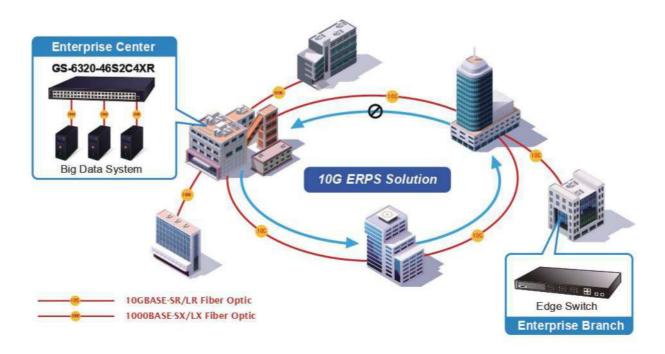
# **Applications**

# High Availability Mesh Networking Solution for Big Data System

To improve the technology of Optical Fiber Ethernet with highly-flexible, highly-extendable and easy-to-install features, the GS-6320-46S2C4XR offers up to **176Gbps** data exchange speed via Optical Fiber interface and the transmission distance can be extended to 10km. The GS-6320-46S2C4XR features strong, rapid, self-recovery capability to prevent interruptions and external intrusions. It incorporates **ITU-T G.8032 ERPS (Ethernet Ring Protection Switching)** into customer's automation network to enhance system reliability and uptime. The GS-6320-46S2C4XR is the ideal solution for data centers, service providers and telecoms to build redundant connection and establish high bandwidth for **Big Data** server farm.



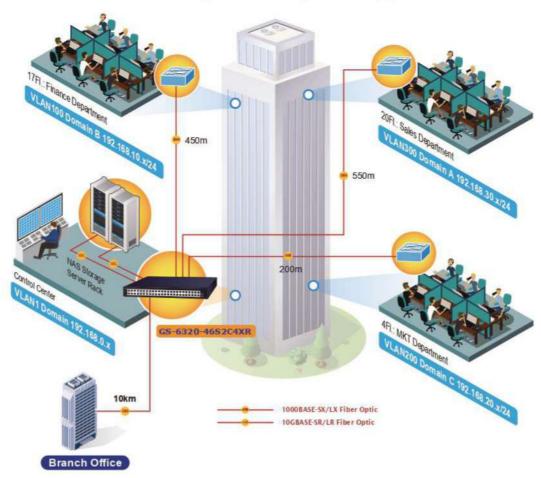




# Layer 3 VLAN Routing

With the built-in, robust Layer 3 routing protocols, the GS-6320-46S2C4XR ensures reliable routing between VLANs and network segments. The routing protocols can be applied by VLAN interface with up to 128 routing entries. The GS-6320-46S2C4XR, certainly an ideal solution for industries, offers greater security, control and bandwidth conservation, and high-speed uplink.

# VLAN Routing + 10G Uplink Applications

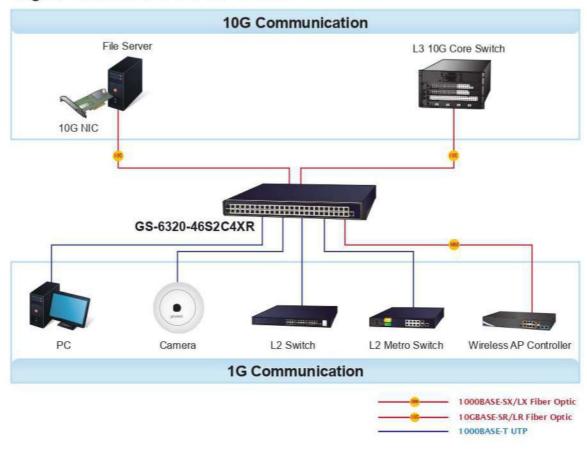




# Excellent Solution to Core/Data Center Security and QoS Switch

The GS-6320-46S2C4XR performs 176 Gigabits per second 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 GS-6320-46S2C4XR 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.

# High Performance Server Service





# Specifications

opecifications	
Product	GS-6320-46S2C4XR
Hardware Specifications	Poss I
100/1000X SFP/mini-GBIC Slots	48
10/100/1000T Copper Ports	2
10GBASE-LR/SR SFP+ Slots	4, compatible with 1000BASE-SX/LX/BX SFP
Console	1 x RJ45 serial port (115200 , 8, N, 1)
D1D-#	< 5 sec: System reboot
Reset Button	>= 10 sec: Factory default
Smart FAN	2
	AC: 100~240V, 50/60Hz
Power Requirements	DC: 36V-60V, 2A max.
	Redundant power designed
Power Consumption	AC 110V: 72 watts/245BTU (max.)
(Full Loading)	DC 60V: 69 watts/235BTU (max.)
ESD Protection	6KV DC
Dimensions (W x D x H)	440 x 200 x 40 mm, 1U height
Weight	3.4kg
SDRAM	512Mbytes
Flash Memory	64Mbytes
	System:  Fand Alast (Red), Fant Alast (Red), DC (Creen), AC (Creen)
	Fan2 Alert (Red), Fan1 Alert (Red), DC (Green), AC (Green)
	Ring (Green), R.O. (Green), SYS (Green)
	10/100/1000BASE-T RJ45 Interfaces (Port 1 to Port 2):
	1000Mbps LNK/ACT (Green)
ED	10/100Mbps LNK/ACT (Orange)
	100/1G Mbps SFP Interfaces (Port 1 to Port 48):
	1000 LNK/ACT (Green)
	100 LNK/ACT (Orange)
	1G/10G BASE-X Interfaces (Port 49 to Port 52):
	10G LNK/ACT (Green)
	1000Mbps LNK/ACT (Green)
Switch Performance	
Switch Fabric	176Gbps/non-blocking
Throughput	130Mpps@ 64Bytes packet
Switch Architecture	Store-and-Forward
Address Table	16K entries, automatic source address learning and aging
Share Data Buffer	32Mbits
Share Data Darrer	IEEE 802.3x pause frame for full-duplex
Flow Control	Back pressure for half-duplex
l	
Jumbo Frame	10KB
ayer 2 Functions	
	Port disable/enable
Port Configuration	Auto-negotiation 10/100/1000Mbps full and half duplex mode selection
	Flow Control disable/enable
Port Status	Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status
	TX/RX/Both
Port Mirroring	Many-to-1 monitor
	802.1Q tagged based VLAN, up to 255 VLAN groups
	Q-in-Q tunneling
	Private VLAN Edge (PVE)
	Port Isolation
	MAC-based VLAN
/LAN	IP Subnet-based VLAN
	Protocol-based VLAN
	VLAN Translation
	Voice VLAN
	MVR (Multicast VLAN Registration)
	GVRP
	GVRP Up to 255 VLAN groups, out of 4095 VLAN IDs
Link Aggregation	



	Traffic classification based, strict priority and WRR				
	8-level priority for switching				
QoS	- Port number				
	- 802.1p priority				
	- 802.1Q VLAN tag				
	- DSCP/TOS field in IP packet				
IONDO	IPv4 IGMP (v1/v2/v3) snooping				
IGMP Snooping	IPv4 IGMP querier mode support				
	Supports 255 IGMP groups				
111.00	IPv6 MLD (v1/v2) snooping,				
MLD Snooping	IPv6 MLD querier mode support				
	Supports 255 MLD groups				
	IP-based ACL/MAC-based ACL				
	ACL based on:				
	- MAC Address				
	- IP Address - Ethertype				
Access Control List	- Protocol Type				
	- VLAN ID				
	- DSCP				
	- 802.1p Priority				
	Up to 256 entries				
	Per port bandwidth control				
Bandwidth Control	Ingress: 10Kbps~13000Mbps				
Dalidinal College	Egress: 10Kbps~13000Mbps				
Layer 3 Functions	Egross. Whops wordings				
IP Interfaces	Max. 128 VLAN interfaces				
Routing Table	Max. 128 routing entries				
	IPv4 OSPFv2 dynamic routing				
Routing Protocols	IPv4 hardware static routing				
	IPv6 hardware static routing				
Management					
Basic Management Interfaces	Console; Telnet; Web browser; SNMP v1, v2c				
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3				
	Firmware upgrade by HTTP protocol through Ethernet network				
	Remote syslog and local system log				
Management Functions	LLDP protocol				
management i arctions	UDLD				
	NTP				
	UPnP				
	RFC 1213 MIB-II				
	RFC 2863 IF-MIB				
	RFC 1493 Bridge MIB				
	RFC 1643 Ethernet MIB				
	RFC 2863 Interface MIB				
	RFC 2665 Ether-Like MIB				
SNMP MIBs	RFC 2737 Entity MIB				
	RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)				
	RFC 2618 RADIUS Client MIB RFC 3411 SNMP-Frameworks-MIB				
	IEEE 802.1X PAE				
	IEEE 802.1A PAE				
	MAU-MIB				
Standarde Conformance					
Standards Conformance Regulatory Compliance	FCC Part 15 Class A, CE				



IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z 1000BASE-SX/LX IEEE 802 3ab 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 802.1x Port Authentication Network Control Standards Compliance IEEE 802.1ab LLDP IEEE 802.3ah OAM RFC 768 UDP **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 RFC 3810 MLD v2 RFC 2328 OSPF v2 ITU-T G.8032 ERPS Ring Environments Temperature: 0 ~ 50 degrees C Operating Relative Humidity: 5 ~ 95% (non-condensing) Temperature: -10 ~ 70 degrees C Storage Relative Humidity: 5 ~ 95% (non-condensing)

# Ordering Information

GS-6320-46S2C4XR L3 46-Port 100/1000BASE-X SFP + 2-Port Gigabit TP/SFP + 4-Port 10G SFP+ 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	RJ45		30m		0 ~ 60 degrees C
MTB-SR	10G	LC	Multi Mode	300m	850nm	0 ~ 60 degrees C
MTB-SR2	10G	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MTB-LR	10G	LC	Single Mode	10km	1310nm	0 ~ 60 degrees C
MTB-LR20	10G	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MTB-LR40	10G	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MTB-LR60	10G	LC	Single Mode	60km	1550nm	0 ~ 60 degrees C
MTB-LR80	10G	LC	Single Mode	80km	1550nm	0 ~ 60 degrees C

# 10Gigabit Ethernet Transceiver (10GBASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MTB-LA10	10G	WDM(LC)	Single Mode	10km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB10	10G	WDM(LC)	Single Mode	10km	1330nm	1270nm	0 ~ 60 degrees C
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
MTB-LA70	10G	WDM(LC)	Single Mode	70km	1270nm	1330nm	0 ~ 60 degrees C
MTB-LB70	10G	WDM(LC)	Single Mode	70km	1330nm	1270nm	0 ~ 60 degrees C



# Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT	100	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)	VEC	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB10(V2)	YES	1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA20(V2) MGB-LB20(V2) YES	VEC	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
	TES	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
	TES	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA80 MGB-LB80	80	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	0 ~ 60 degrees C
	YES	1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	0 ~ 60 degrees C

# 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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