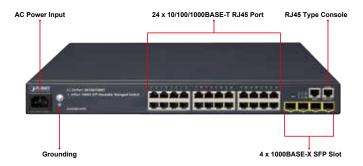


Layer 3 24-Port 10/100/1000T + 4-Port 1000X SFP Stackable Managed Switch



Powerful Layer 3 Gigabit Routing Solution for Enterprise Backbone and Data Center Networking

PLANET SGS-6340-24T4S is a Layer 3 Stackable Managed Gigabit Switch that provides high-density performance, Layer 3 static routing, RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). With 56Gbps switching fabric, the SGS-6340-24T4S can handle extremely large amounts of data in a secure topology linking to an enterprise backbone or high capacity servers. The powerful WRR (Weighted Round Robin) and Network Security features make the SGS-6340-24T4S perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.



Layer 3 Routing Support

The SGS-6340-24T4S enables the administrator to conveniently boost network efficiency by configuring Layer 3 static routing manually, the RIP (Routing Information Protocol) or OSPF (Open Shortest Path First) settings automatically. The RIP can employ the hop count as a routing metric and prevent routing loops by implementing a limit on the number of hops allowed in a path from the source to a destination. The maximum number of hops allowed for the RIP is 15. The OSPF is an interior dynamic routing protocol for autonomous system based on link-state. The protocol creates a link-state database by exchanging link-states among Layer3 switches, and then uses the Shortest Path First algorithm to generate a route table based on that database.

Physical Ports

- 24-Port 10/100/1000BASE-T Gigabit Ethernet RJ45
- 4 1000BASE-X mini-GBIC/SFP slots
- RJ45 to DB9 console interface for switch basic management and setup

IP Stacking

- Connects with stack member via both Gigabit TP and SFP interfaces
- Single IP address management, supporting up to 24 units stacked together

IP Routing Features

- Supports maximum 128 static routes and route summarization
- Supports dynamic routing protocol: RIP and OSPF

Layer 2 Features

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z Gigabit Ethernet standard
- Supports auto-negotiation and half-duplex/full-duplex modes for all 10BASE-T, 100BASE-TX and 1000BASE-T ports
- Auto-MDI/MDI-X detection on each RJ45 port
- · Prevents packet loss flow control
 - IEEE 802.3x pause frame flow control in full-duplex mode
 - Back-pressure flow control in half-duplex mode
- High performance Store-and-Forward architecture, broadcast storm control, port loopback detect
- 16K MAC address table, automatic source address learning and aging
- Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - GVRP for dynamic VLAN management
 - Up to 256 VLANs groups, out of 4041 VLAN IDs
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad)
 - Private VLAN Edge (PVE) supported
 - GVRP protocol for Management VLAN
 - Protocol-based VLAN



Abundant IPv6 Support

The SGS-6340-24T4S provides IPv6 management and enterprise-level secure features such as SSH, ACL, WRR and RADIUS authentication. The SGS-6340-24T4S thus helps the enterprises to step in the IPv6 era with the lowest investment. In addition, you don't need to replace the network facilities when the IPv6 FTTx edge network is built.

High Performance

The SGS-6340-24T4S boasts a high-performance switch architecture that is capable of providing non-blocking switch fabric and wire-speed throughput as high as 56Gbps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands.

Robust Layer 2 Features

The SGS-6340-24T4S can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, Spanning Tree Protocol, WRR, bandwidth control and IGMP snooping. The SGS-6340-24T4S provides 802.1Q tagged VLAN, Q-in-Q, voice VLAN and GVRP Protocol. The VLAN groups allowed to be on the SGS-6340-24T4S will be maximally up to 256. By supporting port aggregation, the SGS-6340-24T4S allows the operation of a high-speed trunk combined with multiple ports. It enables up to 128 groups for trunking with a maximum of 8 ports for each group.

Excellent Traffic Control

The SGS-6340-24T4S is loaded with powerful traffic management and WRR features to enhance services offered by telecoms. The WRR functionalities include wire-speed Layer 4 traffic classifiers and bandwidth limitation which are particularly useful for multitenant unit, multi-business unit, Telco, or network service applications. It also empowers the enterprises to take full advantage of the limited network resources and guarantees the best in VoIP and video conferencing transmission.

Powerful Security

The SGS-6340-24T4S supports ACL policies comprehensively. The traffic can be classified by source/destination IP addresses, source/destination MAC addresses, IP protocols, TCP/UDP, IP precedence, time ranges and ToS. Moreover, various policies can be conducted to forward the traffic. The SGS-6340-24T4S also provides IEEE 802.1x port based access authentication, which can be deployed with RADIUS, to ensure the port level security and block illegal users.

Efficient Management

The SGS-6340-24T4S supports IP stacking function that helps network managers to easily configure up to 24 switches in the same series via one single IP address instead of connecting and setting each unit one by one. For efficient management, the SGS-6340-24T4S Managed Gigabit Switch is equipped with console, Web and SNMP management interfaces. With its built-in Web-based management interface, the SGS-6340-24T4S offers an easy-to-use, platform-independent management and configuration

- MAC-based VLAN
- IP subnet VLAN
- · Supports Link Aggregation
 - Maximum 128 trunk groups, up to 8 ports per trunk group
 - IEEE 802.3ad LACP (Link Aggregation Control Protocol)
 - 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)
 - 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 many)
- Provides port mirror (many-to-1)

Quality of Service

- · 8 priority queues on all switch ports
- Support for strict priority and WRR (Weighted Round Robin)
 CoS policies
- · Traffic classification
 - IEEE 802.1p CoS/ToS
 - IPv4/IPv6 DSCP
 - Port-based WRR
- · Strict priority and WRR CoS policies

Multicast

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

Security

- IEEE 802.1x port-based network access authentication
- · MAC-based network access authentication
- Built-in RADIUS client to co-operate with the RADIUS servers for IPv4 and IPv6
- · TACACS+ login users access authentication
- IP-based Access Control List (ACL)
- · MAC-based Access Control List
- Supports DHCP snooping
- · Supports ARP inspection
- IP Source Guard prevents IP spoofing attacks
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding



facility. The SGS-6340-24T4S supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. For text-based management, the SGS-6340-24T4S can be accessed via Telnet and the console port. Moreover, the SGS-6340-24T4S offers secure remote management by supporting SSH connection which encrypts the packet content at each session.

Flexibility and Extension Solution

The four mini-GBIC slots built in the SGS-6340-24T4S are compatible with 1000BASE-X and WDM SFP (Small Form-factor Pluggable) fiber-optic modules. The distance can be extended from 550 meters (multi-mode fiber) to 10/50/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

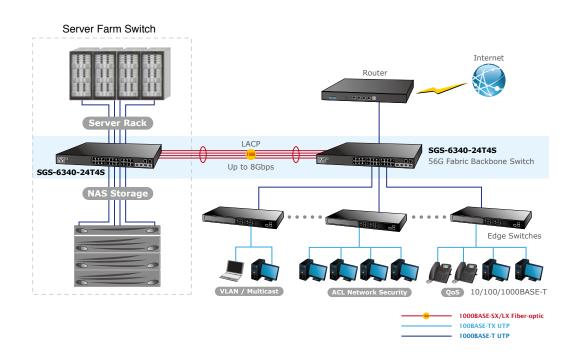
Management

- · Management IP for IPv4 and IPv6
- · Switch Management Interface
 - Console/Telnet Command Line Interface
 - Web switch management
 - SNMP v1, v2c, and v3 switch management
 - SSH/SSL secure access
- BOOTP and DHCP for IP address assignment
- Firmware upload/download via TFTP or HTTP Protocol for IPv4 and IPv6
- · SNTP (Simple Network Time Protocol) for IPv4 and IPv6
- User privilege levels control
- · Syslog server for IPv4 and IPv6
- Four RMON groups 1, 2, 3, 9 (history, statistics, alarms and events)
- Supports ping, trace route function for IPv4 and IPv6

Applications

Server Farm Switch

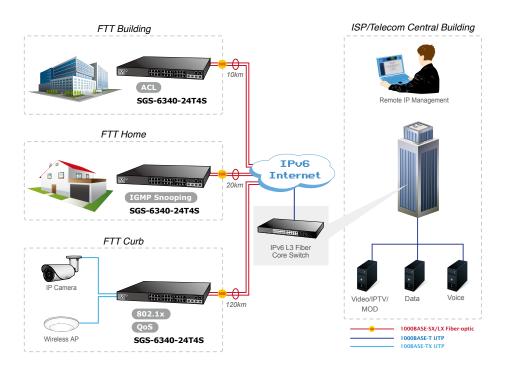
The SGS-6340-24T4S provides up to 28 Gigabit Ethernet ports for enterprises and network servers. It is ideal to be used as a server farm switch connecting to servers. With its port trunking function, an 8GB fat pipe is provided for connecting to the backbone if required.





Enterprise Security and QoS Edge Switch

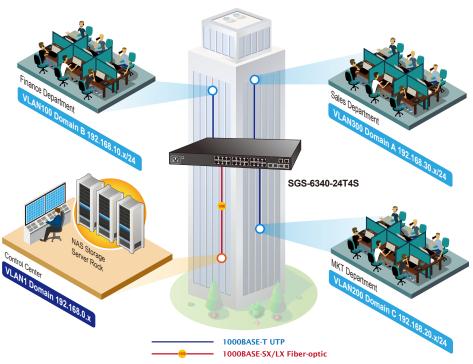
With the IEEE 802.1x network access authentication, the SGS-6340-24T4S provides the MAC/IP/Protocol Access Control list and Port Security functions which can limit the number of MAC addresses to be passed through one specific port. The IGMP snooping and QoS features in the SGS-6340-24T4S improve the network efficiency and protect the network clients.



Layer 3 VLAN Routing

With the built-in robust Layer 3 traffic routing protocols, the SGS-6340-24T4S ensures reliable routing between VLANs and network segments. The routing protocols can be applied via VLAN interface. The SGS-6340-24T4S is certainly a cost-effective and ideal solution for enterprises.

VLAN Routing Applications





Specifications

Name	Model	SGS-6340-24T4S						
RAM Size	Hardware Specifications							
FLASH labe 32MB Copper Fors 2 4 0100140006ASE-T R.458 auto-MUMDI-X ports SPENITHIO-SQUES (ols) 4 1008ASE-X SPEP Interfaces Conside 1 x R.458-to-R5232 serial port (860. 8. N. 1) Systeth Architecture Social and Architecture Address Table 16K MAC address table with auto learning function Shared Data Buffer 1 5,003 System Flore (Flore) Social and Architecture Social and Architectur	CPU	ARM A9 400MHz						
Copper Ports	RAM Size	256MB						
Copper Ports		32MB						
SPPmini-GBIC Stots		24 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports						
Console 1 x R.45-fo.RS232 serial port (6600, 6, N, 1) Store and forward Svitch Fabric Soft-bashine Svitch Fabric Soft-bashine 1 of MAC address fable Shared Data Buffer 1 of MAC address fable Shared Data Buffer 1 of MAC address fable Space pressure for half-duplex IEEE 802 3s pause frame for full-duplex IEEE 802 shared frame frame for full-duplex IEEE 802 shared frame frame frame frame for full-duplex IEEE 802 shared frame frame frame frame for full-duplex IEEE 802 shared frame fr	• •							
Switch Fabric Sw								
Switch Throughput 4, 46.8Mpcs 41.8Mmpcs 41.8Mm								
Address Table 16K MAC address table with auto learning function								
Address Table Address Table Address Table Flow Control Back pressure for half-duplex EEE 802.3x pause frame for full-duplex EEE 802.3x pause frame for full-duplex LED System PWR, SYS Ports: 10000 SRP slot: LNK/ACT 10000 SRP slot: LNK/ACT 10000 SRP slot: LNK/ACT 10000 SRP slot: LNK/ACT Dimensions (W x D x H) 442 x 220 x 44 mm, 11 height Weight 2340 Power Consumption 19.2 wattw65.5 BTU (maximum) Power Requirements A C100-240y, 50/06/12 Management Function System Configuration Console, Telhet, SSH, Web browser, SNMP v1, v2c and v3 Supports both IPv4 and IPv6 addressing Supports He user IP security inspection for IPv4/IPv6 SNMP Supports Pv4/IPv6 FTFT Supports Pv4/IPv6 FTFTP Supports Pv4/IPv6 FTFTP Supports Pv4/IPv6 SSH. Pv6 group of the consoler and password Supports Pv4/IPv6 SSH. Pv6 group of the consoler and password Supports Pv4/IPv6 SSH. Pv6 group of the consoler and password Supports Pv4/IPv6 SSH. Pv6 group of the consoler and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Pv4/IPv6 SSH. Pv6 group of the pv4/IPv6 Telhet user name and password Supports Supports Section for IPv4/IPv6 Telhet user name and password Supports Section for IPv4/IPv6 Telhet user name and password Supports Section for IPv4/IPv6 Telhet user name and password Supports Section for IPv4/IPv6 Telhet user name and password Supports Section for IPv4/IPv6 Telhet user name and password Supports Section for IPv4/IPv6 Telhet user nam								
Shared Data Buffer 1.5MB Back pressure for half-duplex IEEE 802.3x pause frame for full-duplex								
Back pressure for half-duplex		-						
Jumbo Frame System-PWR, SYS Ports: 10/100/1000T RJ45 Port: LNK/ACT 1000X SPP slot: LNK/ACT Dimensions (W x D x H) 442 x 220 x 44 mm, 1U height Weight 2440g Power Consumption 19 2 watsre55.5 if BTU (maximum) Power Requirements AC 100-240V, 50/60Hz Management Function System Confliguration Console, Teinet, SSH, Web browser, SNMP v1, v2c and v3 Supports both IPv4 and IPv6 addressing Supports both IPv4 and IPv6 addressing Supports MIB and TRAP Supports PIPv4IIPv6 SNMP Supports MIP slot TRAP Supports IPv4IIPv6 NTP Supports PAVIIPv6		Back pressure for half-duplex						
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Ports: 10/100/1000T Rul45 Port; LMK/ACT 1000X SFP sit; LMK/ACT 100X SFP sit; LMK/ACT 1	Julibo Flame							
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Power Consumption 19.2 watts/65.51 BTU (maximum) Power Requirements AC 100-240V, 50/60Hz Management Inction System Configuration Console, Telnet, SSH, Web browser, SMMP v1, v2c and v3 Supports both IPv4 and IPv6 addressing Supports MIB and TRAP Supports MIB and TRAP Supports IPv4/IPv6 FTPTFTP Supports IPv4/IPv6 FTPTFTP Supports IPv4/IPv6 STPTFTP Supports IPv4/IPv6 SSH The right configuration for IPv4/IPv6 Telnet user name and password Supports IPv4/IPv6 SSH The right configuration for verse to adopt RADIUS server's shell management Supports Scult, console, Telnet Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety net management function: avoid unlawful landing at nonrestrictive area Supports Security IP safety networks and value and supports area Supports Security IP safety networks and value security in safety networks and value security	Dimensions (W x D x H)	442 x 220 x 44 mm, 1U height						
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Management Function	Power Consumption	19.2 watts/65.51 BTU (maximum)						
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IFFE 802 3ad LACP/static trunk	VLAN	802.1ad Q-in-Q (VLAN stacking) GVRP for VLAN management Private VLAN Edge (PVE) supported Protocol-based VLAN MAC-based VLAN						
Link Aggregation IEEE 802.3ad LACP/static trunk	Bandwidth Control	TX/RX/both						
Supports 128 groups with 8 ports per trunk group	Link Aggregation							



QoS	8 priority queues on all switch ports Supports strict priority and Weighted Round Robin (WRR) CoS policies Traffic classification: - IEEE 802.1p CoS/ToS - IPv4/IPv6 DSCP - Port-based WRR					
Multicast	IGMP v1/v2/v3 snooping Querier mode support MLD v1/v2 snooping Multicast VLAN Register (MVR)					
Access Control List	Supports Standard and Expanded ACL IP-based ACL/MAC-based ACL Time-based ACL Up to 512 entries					
Bandwidth Control	At least 64Kbps step					
Security	Supports MAC + port binding IPv4/IPv6 + MAC + port binding IPv4/IPv6 + port binding Supports MAC filter ARP scanning prevention					
Authentication	IEEE 802.1x port-based network access control AAA authentication: TACACS+ and IPv4/IPv6 over RADIUS					
SNMP MIBs	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 RFC 2013 UDP MIB RFC 2013 UDP MIB RFC 2233 if MIB RFC 2452 TCP6 MIB RFC 2452 TCP6 MIB RFC 2454 UDP6 MIB RFC 2454 UDP6 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 Standards 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 802.3s Gigabit 1000BASE-T IEEE 802.3x flow control and back pressure IEEE 802.3d port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1v Rapid Spanning Tree Protocol IEEE 802.1v Class of Service IEEE 802.1v Class of Service IEEE 802.1X port authentication network control IEEE 802.1x Durt authentication network control IEEE 802.1ab LLDP RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2088 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 FRC 3810 MLD v2 RFC 3820 OSPF v2					
	RFC 1058 RIP v1 RFC 2453 RIP v2					



Environment	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 90% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 90% (non-condensing)

Ordering Information

SGS-6340-24T4S	Layer 3 24-Port 10/100/1000T + 4-Port 1000X SFP Stackable Managed Switch
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Related PoE Products

SGS-6340-48T4S	Layer 3 48-Port 10/100/1000T + 4-Port 1000X SFP Stackable Managed Switch
SGS-6340-24P4S	Layer 3 24-Port 10/100/1000T 802.3at PoE + 4-Port 1000X SFP Stackable Managed Switch/370W
SGS-6340-20S4C4X	Layer 3 20-Port 100/1000X SFP + 4-Port Gigabit TP/SFP + 4-Port 10G SFP+ Stackable Managed Switch

Available Modules for SGS-6340-24T4S

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-L30	1000	LC	Single Mode	30km	1310nm	0 ~ 60 degrees C
MGB-L50	1000	LC	Single Mode	50km	1550nm	0 ~ 60 degrees C
MGB-L70	1000	LC	Single Mode	70km	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-TL30	1000	LC	Single Mode	30km	1310nm	-40 ~ 75 degrees C
MGB-TL70	1000	LC	Single Mode	70km	1550nm	-40 ~ 75 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				1550nm	1310nm	
MGB-LA20	1000	WDM (LC)	Single Mode 20km	201	1310nm	1550nm	0 00 40
MGB-LB20	1000	VVDIVI (LC)		1550nm	1310nm	0 ~ 60 degrees C	
MGB-LA40	1000	WDM (LC)	0:	40km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB40	1000	VVDIVI (LC)	Single Mode	e 40km	1550nm	1310nm	
MGB-LA60	1000	WDM (LC)	Single Mode	le 60km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB60	1000				1550nm	1310nm	
MGB-TLA10	1000	WDM (LC)	Cingle Mede	Single Mode 10km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB10		VVDIVI (LC)	Sirigle Wode		1550nm	1310nm	
MGB-TLA20	1000	WDM (LC)	Cinalo Modo	20km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB20	1000	VVDIVI (LC)	Single Mode		1550nm	1310nm	
MGB-TLA40	1000	WDM (LC)	Single Mode	Single Mode 40km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB40				40KIII	1550nm	1310nm	-40 - 75 degrees C
MGB-TLA60	1000 V	1000 WDM (LC) S	Single Mode	60km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB60					1550nm	1310nm	

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