

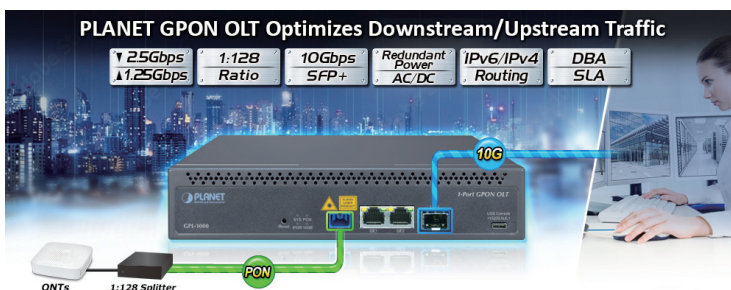
1-Port GPON OLT with 2-Port 10/100/1000T + 1-Port 10G SFP+ and 1 AC + 1 DC



High-performance GPON for FTTx Applications

PLANET GPL-1000 GPON Optical Line Terminal (OLT) consists of **one GPON port, two Gigabit Ethernet ports, one 10G SFP+ port** and one management port. It complies with ITU-T G.984 and meets the requirements about GPON OLT in network access technical requirements.

It is easy to install and maintain a GPON deployment up to **128** ONU and HGU devices, providing highly-effective GPON solutions and convenient management for fiber optic broadband network.



High-speed and Long-distance Coverage for Triple Play Services

The GPL-1000 provides a high bandwidth of up to **2.5Gbps** for **downstream** and **1.25Gbps** for **upstream**, long-distance coverage of up to 20km between equipment nodes, and flexibility for network deployment. It is a cost-effective access technology with reliable and scalable network for triple-play service applications such as HDTV, IPTV, voice-over-IP (VoIP) and multimedia.

High Split Ratio for a Cost-effective Network Solution

The GPL-1000 is an ideal solution for FTTx applications. It helps to minimize the investment cost for carriers by offering a high split ratio of **1:128** per port and supporting the usage of PLANET ONUs. The GPL-1000 provides strong functionalities for Ethernet features such as VLAN, Dynamic Bandwidth Allocation (**DBA**), Service Level Agreement (**SLA**) and Access Control List. GPON protocol allows a Gigabit Ethernet communications fiber to be shared by multiple end users using a passive optical splitter.

GPON Port

- 1 GPON OLT SC/UPC Connector (TX: 9dBm & Sen: -32dBm) (TX: 1490nm & RX: 1310nm)
- Up to 2.5Gbps downstream and 1.25Gbps upstream
- Maximum transfer distance of up to 20km
- PON port supports up to 128 ONT/HGU
- Compliant with G.984

Physical Ports

- 2 10/100/1000BASE-T RJ45 copper ports
- 1 10GBASE-SR/LR SFP+ slot, compatible with 1000BASE-SX/LX/BX SFP
- One USB console interface for basic management and setup

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, working with Rate Limit(Kbps) function
- Jumbo frame size
 - 10/100/1000BASE-T RJ45 copper ports: 9022Bytes
 - GPON OLT SC/UPC Connector: 1652 Bytes
 - 10GBASE-SR/LR SFP+ slot: 9036 Bytes
- Automatic address learning and address aging

Uplink Port Management

- Traffic Statistics and Optical information display
- Port Config for description/Admin Status/Speed/Flow Control/ Isolate/PVID/Broadcast and Unicast Storm Limit/Ingress & Egress Rate Limit/MAC Limit

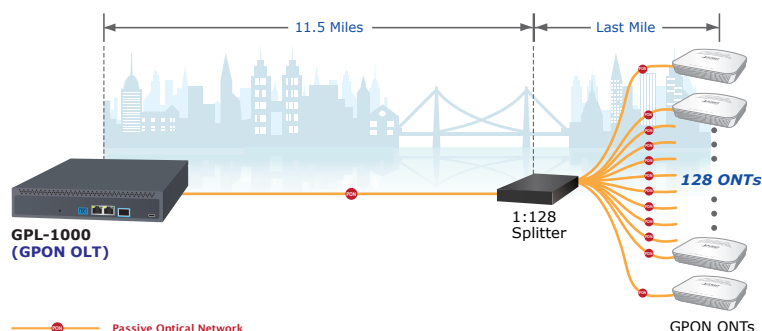
OLT Management

- User-friendly GUI management
- 2 control interfaces
 - Out-of-Band IP – the USB serial port
 - In-Band IP – the Gigabit TP and 10G SFP+ uplink ports
- Supports ONT/HGU authentication; averts illegal ONT access to network

ONT/HGU Management

- ONT/HGU port control
- ONT/HGU VLAN mode

Point to Multi-Point Application

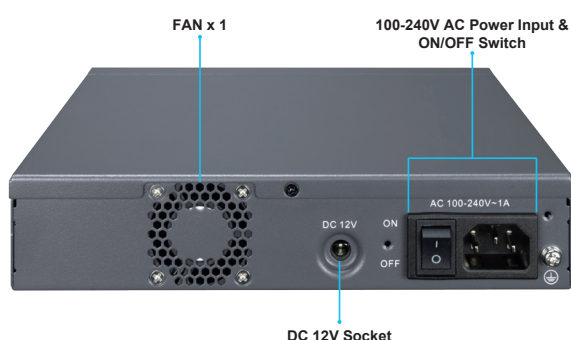


Flexible and Extendable 10Gb Ethernet Solution

The GPL-1000 has one 10G SFP+ uplink port to deliver ultra-high speed networking over long distances to service providers. The 10G SFP+ slot supports dual speed and **10GBASE-SR/LR** or **1000BASE-SX/LX**. With its 10G Ethernet link capability and additional 2-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 GPL-1000 provides broad bandwidth and powerful processing capacity for FTTx applications for distribution data link.

Extractive Power Supply Design to Increase Flexibility

The GPL-1000 is equipped with one extractive 100~240V AC power supply unit, so it is easy to replace the power for users. Besides, the GPL-1000 reserves another backup power slot on the rear panel and users can add the second AC or DC power to the redundant power supply installation. The AC power or DC power is optional. The redundant power system is specifically designed to handle the demands of high-tech facilities requiring the highest power integrity.



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

To help customers stay on top of their businesses, the GPL-1000 not only provides ultra high transmission performance and excellent Layer 2 technologies, but also IPv4/IPv6 software VLAN routing feature which allows to crossover different VLANs and different IP addresses for the purpose of having a highly-secure, flexible management and simpler networking application.

PON Management

- Traffic Statistics and Optical information display
- Port Config for description/Admin Status/Broadcast and Unicast Storm Limit/Ingress & Egress Rate Limit
- PON Range config and ALS Config

ONU Management

- ONU List
- Automatic Discovery
- Automatic Learn
- ONU Image Upgrade
- Rogue ONU Table List and Config

Profile Management

- ONU Profile Config
- ONU Profile Bind
- Rapid Deployment

Layer 3 IP Routing Features

- IPv4/IPv6 static routing
- Routing interface provides per VLAN routing mode
- Loopback function for all Ethernet and PON interfaces

Layer 2 Features

- Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - VLAN Translation
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad) supported
 - PON P2P
 - DSCP-to-CoS QoS Mapping: Supports bi-directional mapping between Layer 3 DSCP fields and Layer 2 CoS (IEEE 802.1p) within VLAN tags
- Supports Spanning Tree Protocol
 - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
- MAC for MAC Table & PON MAC Table display and Aging configuration
- Link Layer Discovery Protocol (LLDP)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port

Quality of Service

- Ingress and egress rate limit per port bandwidth control
- 4 priority queues on all switch ports
- Strict priority and Weighted Round Robin (WRR) CoS policies

Multicast

- Supports IPv4 IGMP snooping v1 and v2
- Supports IPv6 MLD snooping v1 and v2
- Querier mode support

Security

- Authentication

Robust Layer 2 Features

The GPL-1000 can be programmed for basic switch management functions such as port speed configuration, VLAN, Spanning Tree Protocol, WRR, bandwidth control and IGMP/MLD snooping. It also supports 802.1Q tagged VLAN, Q-in-Q and DSCP Protocol. In addition, the number of VLAN interfaces is 512.

Efficient and Secure Management

For efficient management, the GPL-1000 is equipped with console, Web and SNMP management interfaces.

- With the built-in **Web-based** management interface, the GPL-1000 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 GPL-1000 offers secure remote management by supporting SSHv2 connection which encrypts the packet content at each session.

- TACACS+ users access authentication
- IPv4/IPv6 Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
 - Port-based Access Control List (ACL)
 - Protocol-based Access Control List (ACL)
- DHCP Snooping to filter distrusted DHCP messages
- Dynamic ARP Restriction discards ARP packets with invalid MAC address to IP address binding

WAN

- IPv4/IPv6/IPv4 & IPv6 versions
 - Static/DHCP/PPPoE connect mode options

NAT

- NAT1/NAT2/NAT4(default) for NAT Config options
- NAT DMZ Hosts

Management

- IPv4 and IPv6 dual stack management
- IPv4 DNS/IPv4 Gateway
- IPv6 SLAAC/IPv6 Gateway
- Switch Management Interfaces
 - Console and Telnet Command Line Interface
 - HTTPs web switch management
 - SNMP v1 and v2c switch management
 - SSHv2, 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
- BOOTP and DHCP for IP address assignment
- System Maintenance
 - Firmware upgrade via HTTPs
 - Configuration upload/download through Web interface
 - Reset button for system reboot or reset to factory default
- DHCP Functions:
 - DHCP Relay
 - DHCP Option 82
 - DHCP Snooping
 - DHCP Server
 - DHCPv6 Server
 - DHCPv6 Relay
- User Privilege levels control
- Network Time Protocol (NTP)
- FAN config
- Network Diagnostic
 - ICMP remote IP ping
 - Tracert Diagnose Config
- Syslog remote alarm
- System Log

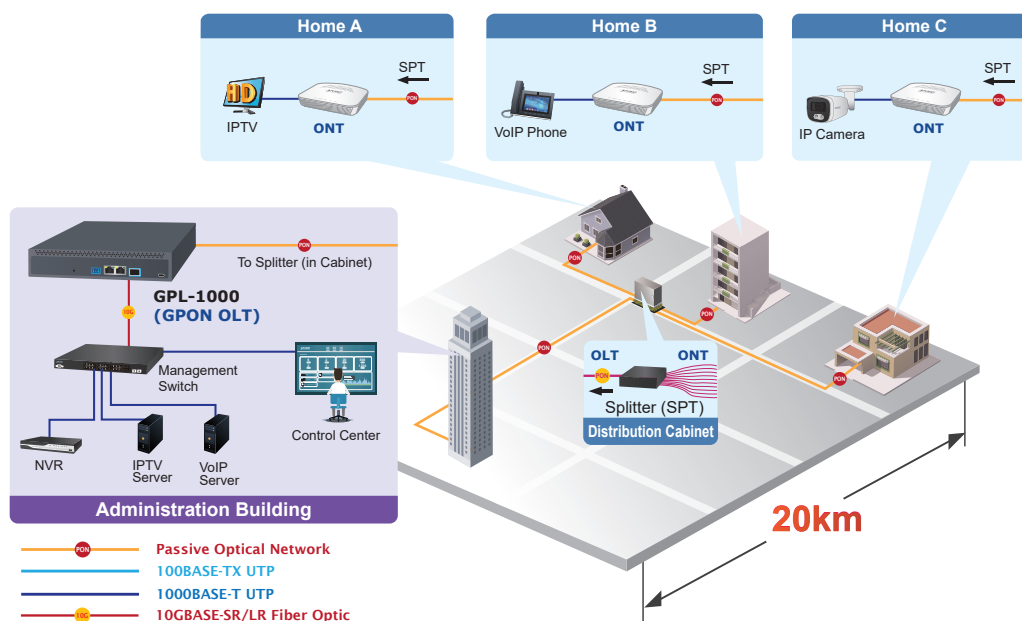
Applications

Cost-effective, Long-distance and High-bandwidth Triple Play or Surveillance Applications

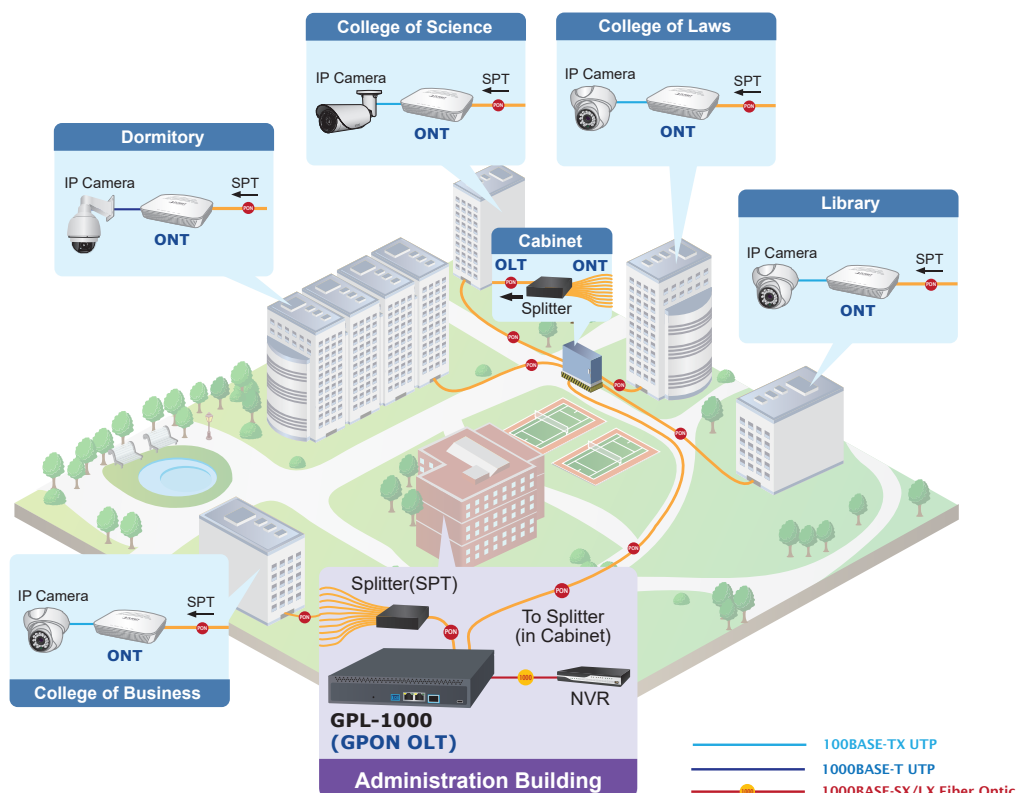
PLANET GPL-1000 delivers high-speed voice, data and video services to residential and business subscribers. With the PON technology, the GPL-1000 offers competitive advantages including a long-term life expectancy of the fiber infrastructure, lower operating costs from the reduction of “active” components, support of up to 20km distance between equipment nodes, easy Installation and maintenance, and most importantly, offering of much greater bandwidth.

The GPL-1000 is the perfect solution for triple play or surveillance applications by offering benefits of cost-effectiveness, scalability and flexibility to network deployment.

Fiber To The Home (FTTH) Application



IP Surveillance System Application on Campus



Specifications

Product	GPL-1000
Hardware Specifications	
PON Interface	1 x GPON port
Ethernet Interface	2 x 10/100/1000BASE-T Copport port, port-1 to port-2 1 x 10GBASE-X SFP+ slot, supporting 10GBASE-SR/LR SFP+ transceiver Backward compatible with 1000BASE-X SFP transceiver
Console	One USB serial port (115200, 8, N, 1)
RAM	512MB
Flash Memory	256MB
Dimensions (W x D x H)	210 x 173 x 43.6mm
Weight	1.2kg
Power Consumption	AC 240V: Max. 9.5 watts/32.4BTU (Power on without any connection) Max. 14.8 watts/50.4BTU (Full loading) DC 12V: Max. 9.5 watts/32.4BTU (Power on without any connection) Max. 14.5 watts/49.4BTU (Full loading)
Power Requirements - AC	100~240V AC, 1A max.
Power Requirements - DC	12 DC, 2A max.
Fan	1
GPON Specifications	
Connector	1 GPON OLT SC/UPC Connector (TX: 9dBm & Sen: -32dBm)
Transmission Speed	Downstream: 2.5Gbps Upstream: 1.25Gbps
Optical Split Ratio	Up to 128
Transmission Distance	20km
PON Module Wavelength	TX: 1490nm; RX: 1310nm
PON Fiber Type	9/125um SMF(Single mode fiber optic)
Switching	
Switch Architecture	Store-and-forward
Switch Fabric	29Gbps
Switch Throughput	21Mpps
Address Table	8K
ARP Table	8K
Jumbo Frame	10/100/1000BASE-T RJ45 copper ports: 9022Bytes GPON OLT SC/UPC Connector: 1652 Bytes 10GBASE-SR/LR SFP+ slot: 9036 Bytes
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex Working with Rate Limit(Kbps) function
Layer 3 Functions	
IP Interfaces	Max. 512 VLAN interfaces for IPv4 Max. 512 VLAN interfaces for IPv6
Routing Protocols	IPv4/IPv6 static routing
WAN	IPv4/IPv6/IPv4 & IPv6 versions - Static/DHCP/PPPoE connect mode options
NAT	NAT1/NAT2/NAT4(default) for NAT Config options NAT DMZ Hosts
Layer 2 Functions	
Port Configuration	Description Admin Status (Port disable/enable) Speed Flow control Isolate PVID Broadcast and Unicast Storm Limit Ingress & Egress Rate Limit
Port Mirroring	TX/RX/Both 1 to 1

VLAN	IEEE 802.1Q tag-based VLAN, up to 512 VLAN groups VLAN Translation Bridging (VLAN Q-in-Q, IEEE 802.1ad) PON P2P DSCP-to-CoS QoS Mapping: Supports bi-directional mapping between Layer 3 DSCP fields and Layer 2 CoS (IEEE 802.1p) within VLAN tags
Spanning Tree Protocol	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
Multicast	IPv4 IGMP snooping v1 and v2 Up to 510 multicast groups IPv6 MLD v1/v2 snooping Up to 510 multicast groups Querier mode support
Storm Control	Broadcast Storm Limit Unicast Storm Limit 0/64-13000kbps
Bandwidth Control	Ingress Rate Limit Egress Rate Limit 0/64-1000000kbps
QoS	PON interfaces: Dynamic Bandwidth Allocation (DBA) Service Level Agreement (SLA) Limiting the upstream/downstream rate based on each ONT/ONU/HGU 4 priority queues on all switch ports Scheduling for priority queues - Weighted Round Robin (WRR) - Strict priority Traffic classification: - IEEE 802.1p CoS/DSCP/Precedence - VLAN ID - Policy-based ingress and egress QoS
Security Functions	
Access Control List	Supports Standard and Expanded ACL - IP-based ACL - MAC-based ACL - Port-based ACL - Protocol-based ACL ACL based on: - MAC Address - IPv4/IPv6 IP Address - Protocol-number - Port Up to 1k entries
Security	Transmission data encryption on the PON interface DHCP snooping Dynamic ARP inspection
Authentication	TACACS+ users access authentication
Management Functions	
System Configuration	Console and Telnet Web browser SNMP v1, v2c
Secure Management Interfaces	SSHv2
System Management	IPv4 and IPv6 dual stack management IPv4 DNS/IPv4 Gateway IPv6 SLAAC/IPv6 Gateway SNMP MIB and TRAP SNMP RMON 1, 2, 3, 9 four groups Firmware upgrade by HTTPs protocol through Ethernet network Configuration upload/download through HTTPs protocol IEEE 802.1ab LLDP protocol NTP client

DHCP Function	DHCP Relay DHCP Option 82 DHCP Snooping DHCP Server DHCPv6 Server DHCPv6 Relay
Event Management	Remote syslog System log
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 SNMPv2 RFC 2011 IP/ICMP MIB RFC 2012 TCP MIB RFC 2013 UDP MIB 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 SNMPv3 notification RFC 2574 SNMPv3 VACM RFC 2674 Bridge MIB Extensions
Standard Conformance	
Regulatory Compliance	CE / LVD
Standards Compliance	ITU-T G.984.x GPON IEEE 802.3z Gigabit 1000BASE-SX/LX IEEE 802.3ae 10Gb/s Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1ab LLDP RFC 768 UDP RFC 783 TFTP RFC 792 ICMP RFC 793 IP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 3810 MLD v2 RFC 5246 (TLS 1.2)
Environments	
Operating	Temperature: -20 ~60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -40 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

GPL-1000	1-Port GPON OLT with 2-Port 10/100/1000T + 1-Port 10G SFP+ and 1 AC + 1 DC
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Related Products

GPN-100	GPON SFU ONT with 1 GbE Interface
GPN-SFP	GPON ONU SFP Transceiver
GPN-400AXV	GPON HGU with 4-Port GbE, 3000Mbps 802.11AX Wireless and 1-Port FXS

Accessories

EPL-SPT-8	GEAPON Splitter (1 x 8 PLC Splitter, Wavelength 1230 ~ 1650 nm)
EPL-SPT-32	GEAPON Splitter (1 x 32 PLC Splitter, Wavelength 1230 ~ 1650 nm)
EPL-SPT-64	GEAPON Splitter (1 x 64 PLC Splitter, Wavelength 1230 ~ 1650 nm)

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)		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)	YES	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB40(V2)		1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA80	YES	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	0 ~ 60 degrees C
MGB-LB80		1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	0 ~ 60 degrees C

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-TGT	1000	Copper	--	100m	--	-40 ~ 85 degrees C
MGB-TSX	1000	LC	Multi Mode	550m	850nm	-40 ~ 85 degrees C
MGB-TSX2	1000	LC	Multi Mode	2km	1310nm	-40 ~ 85 degrees C
MGB-TLX(V2)	1000	LC	Single Mode	20km	1310nm	-40 ~ 85 degrees C
MGB-TL30	1000	LC	Single Mode	30km	1310nm	-40 ~ 85 degrees C
MGB-TL40	1000	LC	Single Mode	40km	1310nm	-40 ~ 85 degrees C
MGB-TL70	1000	LC	Single Mode	70km	1550nm	-40 ~ 85 degrees C
MGB-TL80	1000	LC	Single Mode	80km	1550nm	-40 ~ 85 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-TSA	1000	WDM(LC)	Single Mode	2km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TSB	1000	WDM(LC)	Single Mode	2km	1550nm	1490nm	-40 ~ 85 degrees C
MGB-TLA10(V2)	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TLB10(V2)	1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	-40 ~ 85 degrees C
MGB-TLA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TLB20	1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 85 degrees C
MGB-LA80	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-LB80	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 85 degrees C
MGB-TLA40	1000	WDM(LC)	Single Mode	60km	1310nm	1550nm	-40 ~ 85 degrees C
MGB-TLB40	1000	WDM(LC)	Single Mode	60km	1550nm	1310nm	-40 ~ 85 degrees C
MGB-TLA80	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	-40 ~ 85 degrees C
MGB-TLB80	1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	-40 ~ 85 degrees C
MGB-TLA120	1000	WDM(LC)	Single Mode	120km	1490nm	1550nm	-40 ~ 85 degrees C
MGB-TLB120	1000	WDM(LC)	Single Mode	120km	1550nm	1490nm	-40 ~ 85 degrees C

Available 10G SFP+ 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	Up to 300m	850nm	0 ~ 60 degrees C
MTB-SR2	10G	LC	Single 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
MTB-TRJ	10G	Copper	--	30m	--	-40 ~ 85 degrees C
MTB-TSR	10G	LC	Multi-Mode	Up to 300m	850nm	-40 ~ 85 degrees C
MTB-TSR2	10G	LC	Single Mode	2km	1310nm	-40 ~ 85 degrees C
MTB-TLR	10G	LC	Single Mode	10km	1310nm	-40 ~ 85 degrees C
MTB-TLR20	10G	LC	Single Mode	20km	1310nm	-40 ~ 85 degrees C
MTB-TLR40	10G	LC	Single Mode	40km	1310nm	-40 ~ 85 degrees C
MTB-TLR60	10G	LC	Single Mode	60km	1550nm	-40 ~ 85 degrees C
MTB-TLR80	10G	LC	Single Mode	80km	1550nm	-40 ~ 85 degrees C
MTB-TLR80	10G	LC	Single Mode	80km	1550nm	-40 ~ 85 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
MTB-TLA20	10G	WDM(LC)	Single Mode	20km	1270nm	1330nm	-40 ~ 85 degrees C
MTB-TLB20	10G	WDM(LC)	Single Mode	20km	1330nm	1270nm	-40 ~ 85 degrees C
MTB-TLA40	10G	WDM(LC)	Single Mode	40km	1270nm	1330nm	-40 ~ 85 degrees C
MTB-TLB40	10G	WDM(LC)	Single Mode	40km	1330nm	1270nm	-40 ~ 85 degrees C
MTB-TLA60	10G	WDM(LC)	Single Mode	60km	1270nm	1330nm	-40 ~ 85 degrees C
MTB-TLB60	10G	WDM(LC)	Single Mode	60km	1330nm	1270nm	-40 ~ 85 degrees C

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