

MGB-Series Transceiver



The MGB family consists of Small Form Factor Pluggable (SFP) transceiver modules that are specifically designed for high performance integrated duplex data link over single mode optical fiber. These transceiver modules are compliant with the SFP Multisource Agreement (MSA) and hot pluggable. These modules offer an easy way to be installed in SFP MSA compliant ports at any time without the interruption of the host equipment operation.

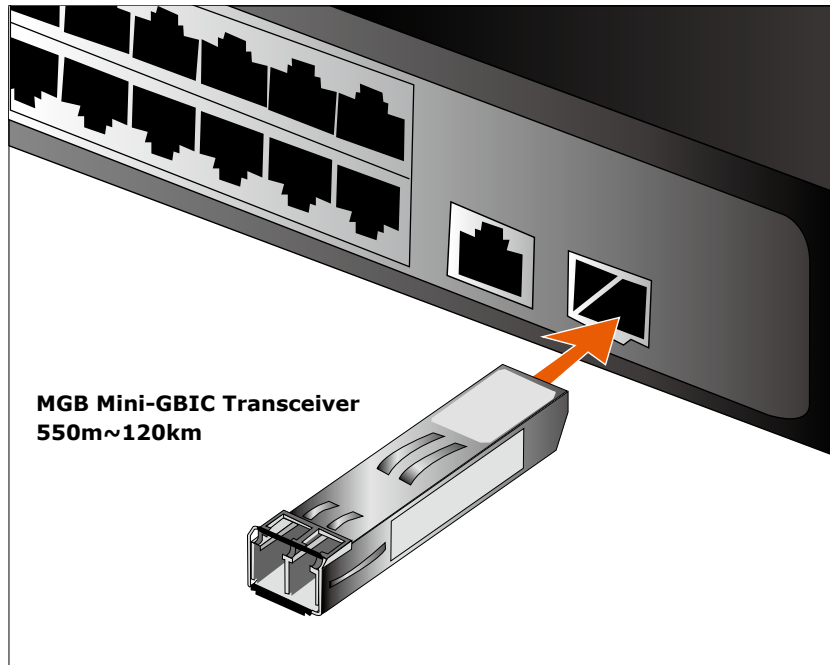
The MGB family of SFP Mini-GBIC Gigabit Ethernet modules can be installed in PLANET Switch products with SFP mini-GBIC interface. The deployment distance can be extended from 100 meters (TP), 550 meters (Multi-Mode, LC), and up to 120 kilometers (Single-Mode, LC).

To meet the increasing demand of the Industrial Ethernet fiber solution, Planet releases the MGB-T series 1000BASE-SX/ LX transceivers that can operate reliably in electrically harsh, climatically demanding, and wide temperature range (-40°C to 75°C) environment. The MGB-T series 1000 BASE -SX / LX transceivers provide easy and fast 1000 BASE -SX / LX connection for Planet wide temperature industrial equipments.

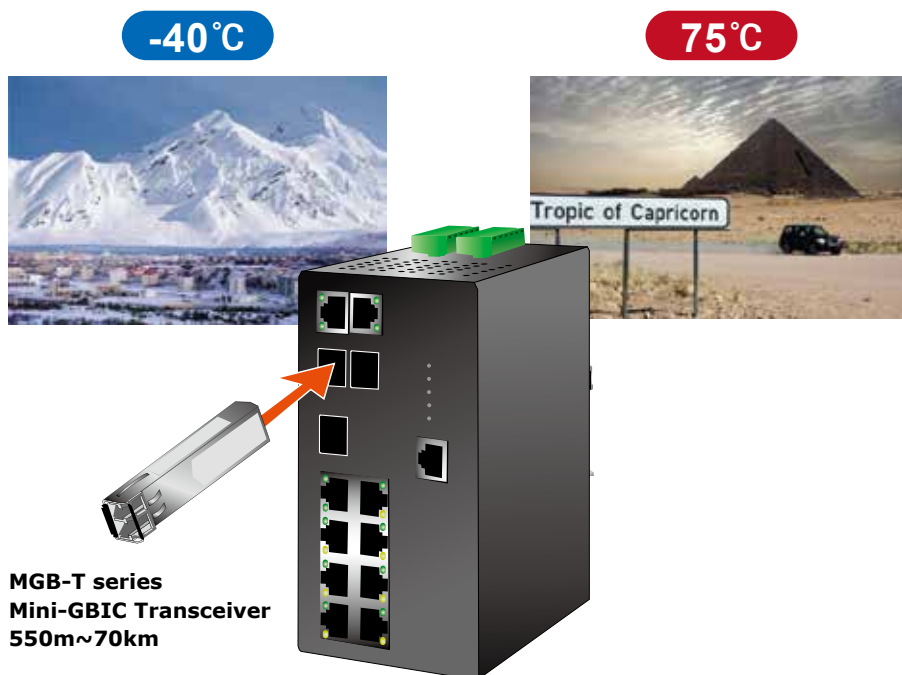
- Comply with the IEEE 802.3ab / 802.3z Gigabit Ethernet standard
- 1 X 1000Mbps TP/ LC fiber port
- Duplex/Single LC connector
- Differential PECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1
- Plug and Play Installation
- 0 to 60 degrees C operating temperature for MGB-GT / MGB-SX / MGB-LX / MGB-L30 / MGB-L50 / MGB-L70 / MGB-L120 / MGB-LA10 / MGB-LB10 / MGB-LA20 / MGB-LB20 / MGB-LA40 / MGB-LB40 / MGB-LA60 / MGB-LB60
- -40 to 75 degrees C operating temperature for MGB-TSX / MGB-TLX / MGB-TL30 / MGB-TL70 / MGB-TLA10 / MGB-TLB10 / MGB-TLA20 / MGB-TLB20 / MGB-TLA40 / MGB-TLB40 / MGB-TLA60 / MGB-TLB60 /

Applications

The MGB family of the SFP Gigabit Ethernet module can be installed into PLANET Switch and Media Converter products with 1000BASE-SX/LX SFP interface. The deployment distance can be extended from 550m (Multi-Mode, LC) up to 120 kilometers (Single-mode, LC). The SFP transceivers are hot-pluggable and hot-swappable. You can plug in and pull out the transceivers to / from any SFP port without having to power off the Switch/Media Converter.



The MGB-T series 1000BASE-SX / LX transceivers is an ideal solution for -40°C to 75°C wide temperature industrial equipment with 1000BASE-SX / LX SFP interfaces. The deployment distance can be extended from 550m (Multi-Mode, LC) to 10 / 30 / 70 kilometers (Single-Mode, LC).



Specifications

Product	MGB-SX
PHY Type	IEEE 802.3z 1000BASE-SX
Fiber Type	Multi-Mode
Connector	LC
Wavelength	850nm
Maximum Distance	220m~550m
Operating Temperature	0 ~ 60 degrees C
Product	MGB-SX2
PHY Type	IEEE 802.3z 1000BASE-SX
Fiber Type	Multi-Mode
Connector	LC
Wavelength	1310nm
Maximum Distance	2km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LX
PHY Type	IEEE 802.3z 1000BASE-LX
Fiber Type	Single Mode
Connector	LC
Wavelength	1310nm
Maximum Distance	10km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-L30
PHY Type	IEEE 802.3z 1000BASE-LX
Fiber Type	Single Mode
Connector	LC
Wavelength	1310nm
Maximum Distance	30km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-L50
PHY Type	IEEE 802.3z 1000BASE-ZX
Fiber Type	Single Mode
Connector	LC
Wavelength	1550nm
Maximum Distance	50km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-L70
PHY Type	IEEE 802.3z 1000BASE-ZX
Fiber Type	Single Mode
Connector	LC
Wavelength	1550nm
Maximum Distance	70km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-L120
PHY Type	IEEE 802.3z 1000BASE-ZX
Fiber Type	Single Mode
Connector	LC
Wavelength	1550nm
Maximum Distance	120km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LA10
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	10km
Operating Temperature	0 ~ 60 degrees C

Product	MGB-LB10
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	10km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LA20
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	20km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LB20
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	20km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LA40
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	40km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LB40
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	40km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LA60
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	60km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-LB60
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	60km
Operating Temperature	0 ~ 60 degrees C
Product	MGB-GT
PHY Type	IEEE 802.3ab 1000BASE-T
Connector	RJ45, Auto-negotiation, Auto-MDI/MDI-X
Maximum Distance	100m
Operating Temperature	0 ~ 60 degrees C

Product	MGB-TSX
PHY Type	IEEE 802.3z 1000BASE-SX
Fiber Type	Multi-Mode
Connector	LC
Wavelength	850nm
Maximum Distance	220m & 550m
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLX
PHY Type	IEEE 802.3z 1000BASE-LX
Fiber Type	Single Mode
Connector	LC
Wavelength	1310nm
Maximum Distance	10km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TL30
PHY Type	IEEE 802.3z 1000BASE-LX
Fiber Type	Single Mode
Connector	LC
Wavelength	1310nm
Maximum Distance	30km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TL70
PHY Type	IEEE 802.3z 1000BASE-ZX
Fiber Type	Single Mode
Connector	LC
Wavelength	1550nm
Maximum Distance	70km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLA10
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	10km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLB10
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	10km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLA20
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	20km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLB20
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	20km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLA40
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	40km
Operating Temperature	-40 ~ 75 degrees C

Product	MGB-TLB40
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	40km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLA60
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1310nm, RX: 1550nm
Maximum Distance	60km
Operating Temperature	-40 ~ 75 degrees C
Product	MGB-TLB60
PHY Type	IEEE 802.3ah 1000BASE-BX
Fiber Type	Single Mode
Connector	WDM/Bidi LC
Wavelength	TX: 1550nm, RX: 1310nm
Maximum Distance	60km
Operating Temperature	-40 ~ 75 degrees C

Ordering Information

MGB-GT	SFP-Port 1000BASE-T Module
MGB-LX	SFP-Port 1000BASE-LX mini-GBIC module - 10km
MGB-SX	SFP-Port 1000BASE-SX mini-GBIC module - 550m
MGB-SX2	SFP-Port 1000BASE-SX mini-GBIC module - 2km
MGB-L30	SFP-Port 1000BASE-LX mini-GBIC module - 30km
MGB-L50	SFP-Port 1000BASE-LX mini-GBIC module - 50km
MGB-L70	SFP-Port 1000BASE-LX mini-GBIC module - 70km
MGB-L120	SFP-Port 1000BASE-LX mini-GBIC module - 120km
MGB-LA10	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-10km
MGB-LB10	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-10km
MGB-LA20	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-20km
MGB-LB20	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-20km
MGB-LA40	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-40km
MGB-LB40	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-40km
MGB-LA60	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-60km
MGB-LB60	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-60km
MGB-TSX	SFP-Port 1000BASE-SX mini-GBIC module - 550m (-40~75°C)
MGB-TLX	SFP-Port 1000BASE-LX mini-GBIC module - 10km (-40~75°C)
MGB-TL30	SFP-Port 1000BASE-LX mini-GBIC module - 30km (-40~75°C)
MGB-TL70	SFP-Port 1000BASE-LX mini-GBIC module - 70km (-40~75°C)
MGB-TLA10	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-10km (-40~75°C)
MGB-TLB10	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-10km (-40~75°C)
MGB-TLA20	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-20km (-40~75°C)
MGB-TLB20	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-20km (-40~75°C)
MGB-TLA40	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-40km (-40~75°C)
MGB-TLB40	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-40km (-40~75°C)
MGB-TLA60	SFP-Port 1000BASE-BX (WDM, TX:1310nm) mini-GBIC module-60km (-40~75°C)
MGB-TLB60	SFP-Port 1000BASE-BX (WDM, TX:1550nm) mini-GBIC module-60km (-40~75°C)

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MGB Series