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.

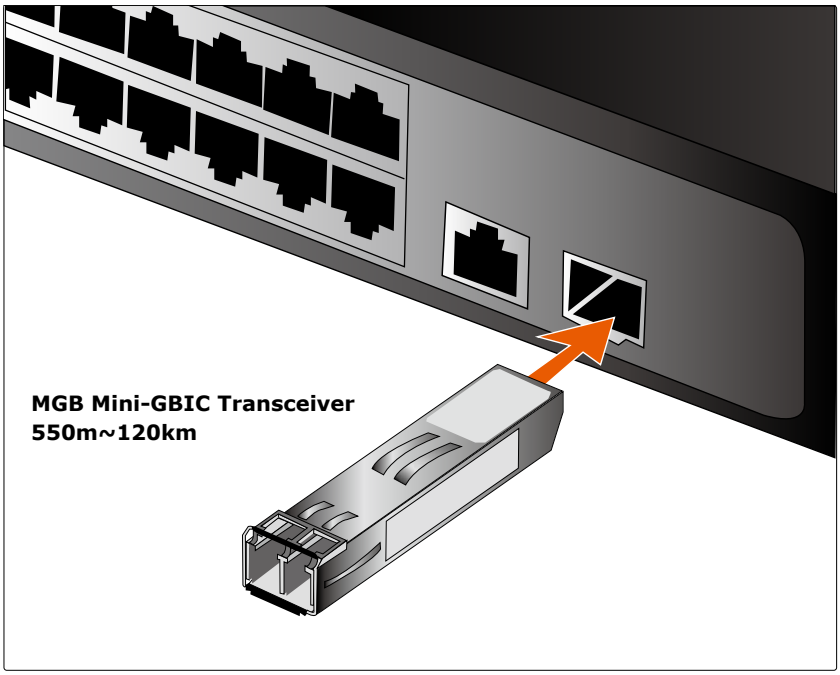
The MGB family of SFP Mini-GBIC Gigabit Ethernet modules can be installed in PLANET Switch products with SFP mini-GBIC interface. The deployment distance can be extended from 100 meters (TP), 550 meters (Multi-Mode, LC), and up to 120 kilometers (Single-Mode, LC).

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 (-40ºC to 75ºC) environment. The MGB-T series 1000BASE-SX/LX transceivers provide easy and fast 1000BASE-SX/LX connection for Planet wide temperature industrial equipments.

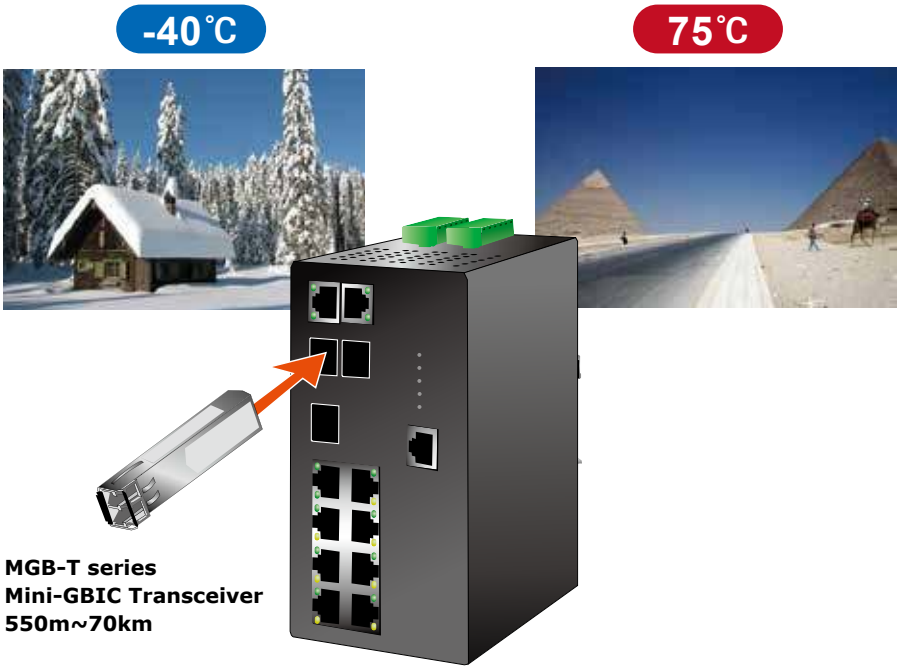
- Comply with the IEEE 802.3ab / 802.3z Gigabit Ethernet standard
- 1 X 1000Mbps TP/ LC fiber port
- Duplex/Single LC connector
- Differential PECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1
- Plug and Play 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 -40ºC to 75ºC 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

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Wavelength
MGB-GT	1000	Copper	--	100m	--	0 ~ 60 °C
MGB-SX	1000	LC	Multi Mode	550m	850nm	0 ~ 60°C
MGB-SX2	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 °C
MGB-LX	1000	LC	Single Mode	10km	1310nm	0 ~ 60°C
MGB-L30	1000	LC	Single Mode	30km	1310nm	0 ~ 60°C
MGB-L50	1000	LC	Single Mode	50km	1550nm	0 ~ 60 °C
MGB-L70	1000	LC	Single Mode	70km	1550nm	0 ~ 60°C
MGB-L120	1000	LC	Single Mode	120km	1550nm	0 ~ 60 °C
MGB-TSX	1000	LC	Multi Mode	550m	850nm	-40 ~ 75 °C
MGB-TLX	1000	LC	Single Mode	10km	1310nm	-40 ~ 75 °C
MGB-TL30	1000	LC	Single Mode	30km	1310nm	-40 ~ 75 °C
MGB-TL70	1000	LC	Single Mode	70km	1550nm	-40 ~ 75 °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°C
MGB-LB10					1550nm	1310nm	
MGB-LA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60°C
MGB-LB20					1550nm	1310nm	
MGB-LA40	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60°C
MGB-LB40					1550nm	1310nm	
MGB-LA60	1000	WDM(LC)	Single Mode	60km	1310nm	1550nm	0 ~ 60°C
MGB-LB60					1550nm	1310nm	
MGB-TLA10	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	-40~75°C
MGB-TLB10					1550nm	1310nm	
MGB-TLA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40~75°C
MGB-TLB20					1550nm	1310nm	
MGB-TLA40	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40~75°C
MGB-TLB40					1550nm	1310nm	
MGB-TLA60	1000	WDM(LC)	Single Mode	60km	1310nm	1550nm	-40~75°C
MGB-TLB60					1550nm	1310nm	

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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