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Cisco MFE and MGE SFP Transceivers Cisco Small Business Network Accessories

Easily Connect Switches with Fiber Optic Networking Modules

Highlights

- Adds fiber-optic connectivity to Cisco Small Business and Cisco Small Business Pro Series switches
- · High-performance link for connecting networks within a building or small campus area
- Easy removal with an integrated spring latch
- · Hot swappable to maintain network availability

Product Overview

Cisco[®] MFE and MGE Small Form-Factor Pluggable (SFP) or mini Gigabit Interface Converter (mini-GBIC) transceivers (Table 1) are easy-to-install modules that provide a simple way to add fiber connectivity or to add an extra Gigabit Ethernet port to your Cisco Small Business or Cisco Small Business Pro Series switches. The transceivers are available for single-mode or multimode fiber-optic cabling and can support distances from 100 meters up to 40 kilometers.

The Cisco MFE and MGE transceivers provide fast and reliable connectivity between switches that are located on different floors, in separate buildings, or on a small campus network needing connectivity between sites. These transceivers can support both Fast and Gigabit Ethernet applications.

	Description	
MFE Transceivers		
MFEBX1	100BASE-BX-20U SFP transceiver for single-mode fiber, 1310 nm wavelength, support up to 20 km	
MFEFX1	100BASE-FX SFP transceiver, for multimode fiber, 1310 nm wavelength, support up to 2 km	
MFELX1	100BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 15 km	
MGE Transceivers		
MGBBX1	1000BASE-BX-20U SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 10 km	
MGBLH1	1000BASE-LH SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 40 km	
MGBLX1	1000BASE-LX SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 10 km	
MGBSX1	1000BASE-SX SFP transceiver, for multimode fiber, 850 nm wavelength, support up to 500 m	
MGBT1	1000BASE-T SFP transceiver for category 5 copper wire, support up to 100 m	

Table 1.	MFE and MGE SFP Transceiver Modules

Features

- Built-in spring latch for easy module removal
- Hot swappable
- Low insertion-loss duplex LC receptacle
- Low electromagnetic interference (FCC Part 15, Class B) for clear communications
- Meets FDA and International Electrotechnical Commission (IEC) eye safety standards

Cisco Limited Warranty

The Cisco Small Business transceivers come with a 5-year limited hardware warranty with return to factory replacement. In addition, Cisco offers software updates for bug fixes at no charge for the life of the warranty and one year of telephone technical assistance from the Small Business Support Center. For more information visit, http://www.cisco.com/en/US/docs/general/warranty/5year_SmallBusiness.html.

Specifications

Table 2 contains the specifications, package contents, and minimum requirements for the Cisco MFE and MGE SFP Transceivers.

Specifications	
Media	MFEBX1: Single-mode fiber (SMF) MFELX1: Single-mode fiber (SMF) MFEFX1: Multimode fiber (MMF) MGBBX1: Single-mode fiber (SMF) MGBLX1: Single-mode fiber (SMF) MGBSX1: Multimode fiber (MMF) MGBSX1: Category 5e UTP
Application	MFEBX1: 100BASE-BX-20U MFELX1: 100BASE-LX MFEFX1: 100BASE-FX MGBBX1: 1000BASE-BX-20U MGBLH1: 1000BASE-LH MGBLX1: 1000BASE-LX MGBSX1: 1000BASE-SX MGBT1: 1000BASE-T
Connector type	MFEBX1: Single LC MFELX1: Duplex LC MFEFX1: Duplex LC MGBBX1: Single LC MGBLH1: Duplex LC MGBLX1: Duplex LC MGBSX1: Duplex LC MGBT1: RJ-45
Wavelength typical (Tx)	MFEBX1: 1310 nm MFELX1: 1310 nm MFEFX1: 1310 nm MGBBX1: 1310 nm MGBLH1: 1310 nm MGBLX1: 1310 nm MGBSX1: 850 nm MGBT1: N/A

 Table 2.
 Specifications for the Cisco MFE and MGE SFP Transceivers

Wavelengh range (R2) MFEEX1: 1350 nm MFEEX1: 1310 nm MGBBX1: 1490 nm MGBBX1: 1490 nm MGBBX1: 1310 nm MGBBX1: 130 nm MGBBX1: 130 nm MGBBX1: 130 nm MGBBX1: 130 nm MGBBX1: 130 nm MGBBX1: 100 nm MGBX1: 100 nm MGB	Specifications	
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NGBLH: 1310 nm NGBLX: 300 nm NGBLX: 3010 nm NGBLX: 3010 nm NGBLX: 100 nd NGBLX: up to 10 km NGBLX: up to 50 km NGBLX		
Index Service 300 mm MGBSX 1: 830 nm MGBSX 1: 800 nm MGBSX 1: 90 to 20 km MFERX 1: 100 to 10 km MGBX 1: 100 to 14 dBm MGBX 1: 100 to 14 dBm MGBX 1: 20 dBm to 34 dBm MGBX 1: 20 dBm (mp) MGBX 1: 20 dBm (mp) MGBX 1: 20 dBm (mp) MGBX 1: 20 dBm (mp) MGBX 1: 34 dBm MGBX 1: 34		
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Unit weight 0.018 kg (0.63 oz.) Power 1W (max)		MGBSX1: 13.4 x 8.5 x 56.5 mm (0.53 x 0.33 x 2.22 in.)
Power 1W (max)		MGBT1: 13.4 x 8.5 x 66 mm (0.53 x 0.33 x 2.60 in.)
	Unit weight	0.018 kg (0.63 oz.)
Operating temperature 32° to 158°F (0° to 70°C)	Power	1W (max)
· · · · · · · · · · · · · · · · · · ·	Operating temperature	32º to 158ºF (0º to 70ºC)

Specifications		
Storage temperature	-40° to 185°F (-40° to 85°C)	
Operating humidity	10% to 85% noncondensing	
Storage humidity	5% to 90% noncondensing	
Standards		
Compliance	FCC Part 15 Class B EN55022 Class B (CISPR 22B) VCCI Class B	
Safety	FDA 21 CFR 1040.10 and 1040.11 EN60950, EN (IEC) 60825-1, 2	
Package Contents		
Cisco SFP transceiver Quick installation guide		
Minimum Requirements		
 Switch with SFP port. Consult the module's <u>Quick Start Guide</u> for interoperability guidelines. 		

Ordering Information

Table 3 provides ordering information for the Cisco MFE and MGE Transceivers

Table 3.	Ordering
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MFE and MGE Transceivers	
Product Number	Description
MFEBX1	100BASE-BX-20U SFP transceiver
MFEFX1	100BASE-FX SFP transceiver
MFELX1	100BASE-LX SFP transceiver
MGBBX1	1000BASE-BX-20U SFP transceiver
MGBLH1	1000BASE-LH SFP transceiver
MGBLX1	1000BASE-LX SFP transceiver
MGBSX1	1000BASE-SX SFP transceiver
MGBT1	1000BASE-T SFP transceiver

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