

Cisco® GLC-SX-MM Compatible 1000Base - SX SFP Transceiver Module - Multi Mode LC Duplex 850nm to 550m

PART NUMBER: GLC-SX-MM-ALG BAR CODE: 9350784002563



Overview

This SFP (mini-GBIC) transceiver module is designed for use with Cisco network equipment and is equivalent to Cisco part number GLC-SX-MM. This transceiver is built to meet or exceed the specifications of the OEM and to comply with Multi-Source Agreement (MSA) standards. This product is 100% functionally tested, and compatibility is guaranteed. The transceiver is a hot-swappable input/output device which allows a Gigabit Ethernet port to link with a fiber optic network. OEM specific configuration data is loaded on to the EEPROM of the transceiver at the factory, allowing this transceiver to initialize and perform identically to an OEM transceiver. This transceiver may be mixed and deployed with other OEM or third party transceivers and will deliver seamless network performance.

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Peatures

- * SFP Multi-Source Agreement compliance
- * Compliant with Fiber Channel 100-MS-SN-I and 100-M6-SN-I standard
- * Compliant with IEEE802.3z Gigabit Ethernet standard
- * Industry standard small form pluggable (SFP) package
- * Duplex LC connector
- * Differential LVPECL inputs and outputs
- * Single power supply 3.3V
- * TTL signal detect indicator
- * Hot Pluggable
- * Class 1 laser product complies with EN 60825-1
- * RoHS compliant
- * Warranty: 1 Year

Application

- * Distributed multi-processing
- * Switch to switch interface
- * High speed I/O for file server
- * Bus extension application
- * Channel extender, data storage

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Units	Note
Storage Temperature	Ta	-40	85	"C	
Supply Voltage	Vcc	-0.5	4.0	V	
Input Voltage	V _{IN}	-0.5	Vcc	V	
Output Current	l _e		50	mA	
Operating Current	l _{op}		400	mA	

Recommended Operating Conditions

Parameter	Symbol	Min.	Max.	Units	Note
Storage Temperature	T _e	0	70	"C	OP6C-MX5-85-C
		-40	85	•℃	OP6C-MX5-85-I
Supply Voltage	Vcc	3.1	3.5	V	
Supply Current	I _{TX} + I _{RX}		250	mA	



6 Transmitter Electro-optical Characteristics

Voc = 3.1 V to 3.5 V, T_c = 0°C to 70°C (-40°C to 85°C)

Parameter	Symbol	Min.	Тур.	Max.	Units	Note	
Output Optical Power 9/125 µm fiber	Pour	-9.5		-4	dBm	Average	
Extinction Ratio	ER	9			dB		
Coupled Power Ratio	CPR	9			dB		
Center Wavelength	λο	830	850	880	nm		
Spectral Width (RMS)	Δλ		-	0.85	nm		
Rise/Fall Time, (20-80%)	T _{r,f}			260	ps		
Relative Intensity Noise	RIN			-117	dB/Hz		
Total Jitter	TJ			227	ps		
Output Eye			Compliant with	Compliant with IEEE802.3z			
Max. Pour TX-DISABLE Asserted	Popp			-45	dBm		
Differential Input Voltage	Voire	0.4		2.0	V		

Receiver Electro-optical Characteristics

Voc = 3.1 V to 3.5 V, $T_c = 0^{\circ}C$ to $70^{\circ}C$ (-40°C to $85^{\circ}C$)

Parameter	Symbol	Min.	Тур.	Max.	Units	Note
Optical Input Power-maximum	P _{IN}	0	-	-	dBm	BER < 1012
Optical Input Power-minimum (Sensitivity)	P _{IN}			-18	dBm	BER < 10 ⁻¹²
Operating Center Wavelength	λC	770		880	nm	
Optical Return Loss	ORL	12			dB	
Signal Detect-Asserted	P _a			-18	dBm	
Signal Detect-Deasserted	P _o	-35		-	dBm	
Differential Output Voltage	Voire	0.5		1.2	V	
Data Output Rise, Fall Time (20-80%)	Tef			0.35	ns	
Receiver Loss of Signal Output Voltage-Low	RX_LOS _L	0		0.5	V	
Receiver Loss of Signal Output Voltage-High	RX_LOS _H	2.4		Vec	V	

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