

Cisco® GLC-ZX-SM Compatible 1000Base-ZX SFP Transceiver Module-Single Mode LC Duplex 1550nm to 70Km

PART NUMBER: GLC-ZX-SM-ALG BAR CODE: 9350784007469



Overview

This SFP (mini-GBIC) transceiver module is designed for use with Cisco network equipment and is equivalent to Cisco part number GLC-ZX-SM. 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-SM-LL-L standard
- * Compliant with IEEE802.3z Gigabit Ethernet standard
- * Industry standard small form pluggable (SFP) package
- * Duplex 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
- * 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 | T _s | -40 | 85 | °C | |
| Supply Voltage | Vcc | -0.5 | 4.0 | V | |
| Input Voltage | V _{IN} | -0.5 | Vcc | V | |
| Output Current | l. | | 50 | mA | |
| Operating Current | l _{op} | | 400 | mA | |

6 Recommended Operating Conditions

| Parameter | Symbol | Min. | Max. | Units | Note |
|---------------------|-----------------------------------|------|------|-------|---------------|
| Storage Temperature | T _c | 0 | 70 | °C | OP6C-S70-15-C |
| | | -40 | 85 | •℃ | OP6C-S70-15-I |
| Supply Voltage | Vcc | 3.1 | 3.5 | V | |
| Supply Current | I _{TX} + I _{RX} | | 300 | 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 | 0 | | +5 | dBm | Average | |
| Extinction Ratio | ER | 7 | | | dB | | |
| Center Wavelength | λο | 1530 | 1550 | 1570 | nm | | |
| Spectral Width (RMS) | Δλ | | | 1 | nm | | |
| Side Mode Suppression Ratio | SMSR | 30 | | | dB | | |
| Rise/Fall Time, (20-80%) | T _{s,f} | | | 260 | ps | | |
| Relative Intensity Noise | RIN | | | -120 | dB/Hz | | |
| Total Jitter | TJ | | | 227 | ps | | |
| Output Eye | | | Compliant with | Compliant with IEEE802.3z | | | |
| Max. Pour TX-DISABLE Asserted | Pore | - | | -45 | dBm | | |
| Differential Input Voltage | Voier | 0.4 | | 2.0 | V | | |

Receiver 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 |
|--|---------------------|------|------|-----------------|-------|-------------------------|
| Optical Input Power-maximum | P _{IN} | -3 | | - | dBm | BER < 10 ⁻¹² |
| Optical Input Power-minimum (Sensitivity) | P _{IN} | | -27 | -24 | dBm | BER < 10 ⁻¹² |
| Operating Center Wavelength | λC | 1260 | | 1610 | nm | |
| Optical Return Loss | ORL | 12 | | | dB | |
| Signal Detect-Asserted | P _a | | | -24 | dBm | |
| Signal Detect-Deasserted | P _o | -35 | | | dBm | |
| Differential Output Voltage | Voire | 0.5 | | 1.2 | V | |
| Data Output Rise, Fall Time (20-80%) | T _{cf} | | | 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 | | V _{cc} | V | |

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