

Cisco GLC-ZX-SM-RGD Datasheet



Cisco GLC-ZX-SM-RGD 1000BASE-ZX extended distance; rugged

GLC-ZX-SM-RGD

The industry-standard Cisco Small Form-Factor Pluggable (SFP) Gigabit Interface Converter links your switches and routers to the network. The hot-swappable input/output device plugs into a Gigabit Ethernet port or slot. Optical and copper models can be used on a wide variety of Cisco products and intermixed in combinations of 1000BASE-T, 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-EX, 1000BASE-ZX, or 1000BASE-BX10-D/U on a port-by-port basis.

Features and benefits

- Hot swappable to maximize uptime and simplify serviceability
- Flexibility of media and interface choice on a port-by-port basis, so you can “pay as you populate”
- Robust design for enhanced reliability
- Supports Digital Optical Monitoring (DOM) capability

1000BASE-ZX SFP for long-reach single-mode fibers

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length. The SFP provides an optical link budget of 21 dB, but the precise link span length depends on multiple factors such as

fiber quality, number of splices, and connectors.

When shorter distances of Single-Mode Fiber (SMF) are used, it might be necessary to insert an inline optical attenuator in the link to avoid overloading the receiver. A 10-dB inline optical attenuator should be inserted between the fiber-optic cable plant and the receiving port on the SFP at each end of the link whenever the fiber-optic cable span loss is less than 8 dB.

Specifications

- Product Number: GLC-ZX-SM-RGD
- Product Description: 1000BASE-ZX extended distance; rugged
- Connector: Dual LC/PC connector
- Wavelength: 1550nm
- Fiber: SMF

- Operating Distance:
 - Approximately 70 km depending on link loss @ SMF

- Transmit Power Range (dBm): +5 to 0
- Receiver Power Range (dBm): -3 to -23
- Wavelength Range (nm): 1500 to 1580
- Dimensions: (H x W x D): 8.5 x 13.4 x 56.5 mm
- Operating temperature range: Industrial temperature range (IND): -40 to 85°C (-40 to 185°F)
- Storage temperature range: -40 to 85°C (-40 to 185°F)

- DOM: Yes

Platform support

- ASA5500 Series Appliances
- ASR 901 and 903 Series Routers
- ASR 1000, 9000, and 9000v Series Routers
- Catalyst Express 500 and Express 520
- Catalyst 2350 and 2360 Series
- Catalyst 2900, 2940, 2950, 2960, 2960-Plus, 2960-C, 2960-S, 2960-SF, 2960-X Series
- Catalyst 2970 and 2975 Series
- Catalyst 3000 and 3100 Blade Switches
- Catalyst 3500XL Series
- Catalyst 3550, 3560, 3560-C, 3560-E, 3560-X Series
- Catalyst 3750-E Series, 3750 Metro, 3750-X Series
- Catalyst 3850 Series
- Catalyst 4500 and 4500-X Series
- Catalyst 4900 Series
- Catalyst 6000 Series
- Catalyst 6800 Series
- Cisco 1941 Series Router
- Cisco 2600, 2800, 2900 Series Router
- Cisco 3200, 3600, 3700 Series Router
- Cisco 4400 Series Router
- Cisco 5700 Series Wireless LAN Controller
- Cisco 6400 Universal Access Router
- Cisco uBR7200 Series
- Cisco 7200, 7300, 7500, and 7600 Series Routers
- Cisco 10000 and uBR 10000 Series Routers
- Cisco 10700 Series Internet Router
- Cisco 12000 Series Router
- Cisco 2000 Connected Grid Router Series
- Cisco 2500 Connected Grid Switch Series
- Cisco IE2000 and IE2000U Series
- Cisco IE3010 Series
- Cisco MDS 9000
- Cisco ME 2400
- Cisco ME 2600X

- Cisco ME 3400
- Cisco ME 3600X and ME 3800X
- Cisco ME 4600 and ME 4900 Series
- Cisco ME 6500 Series
- Cisco MWR 2941 Mobile Wireless Router
- CRS Router Series
- CSS 11500 Series
- Cisco RF Gateway Series
- NAM 2200 Series Appliances
- Nexus 2000, 3000, 4000, 5000, 7000, 9000, 9300, 9500 (modular) Series

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