

DATA SHEET

CISCO 100BASE-FX SFP FAST ETHERNET INTERFACE CONVERTER ON GIGABIT SFP PORTS

The Cisco[®] 100BASE-FX Small Form-Factor Pluggable (SFP) Fast Ethernet Interface Converter (GLC-GE-100FX=) is a hotswappable device that plugs into a Gigabit Ethernet SFP port on Cisco Catalyst[®] 3750 Series, 3560 Series, and 2970 Series switches. The Cisco SFP provides full-duplex 100-Mbps connectivity between switches over multimode fiber (MMF) infrastructures. It offers investment protection and an easy migration path for customers moving to Gigabit Ethernet connections in the future.

The 100BASE-FX SFP operates on ordinary multimode fiber optical link spans of up to 2 kilometers (km) in length. Customers implementing Cisco 100BASE-FX SFP can use 1000BASE-X SFPs in the future (including SX, LX/LH, ZX, and coarse wavelength-division multiplexing SFPs).



TECHNICAL SPECIFICATIONS

Platform Support

The Cisco 100BASE-FX SFP on Gigabit SFP ports is supported on Cisco Catalyst 3750, 3560, and 2970 series switches. For more details, see the *Compatibility Matrix for 100BASE-FX Small Form-Factor Pluggable Modules* at: http://www.cisco.com/univercd/cc/td/doc/product/lan/cat3750/sfpmod/tscomp.htm

Connectors and Cabling

Connectors: Dual LC connector

Table 1 shows cabling specifications for the 100BASE-FX SFP installed on a Gigabit Ethernet SFP port. The minimum cable distance is 6.5 feet (2 meters [m]).

Table 1. SFP Port Cabling Specifications

| SFP | Wave | elength (| nm) | Fiber Type | Core Size (micron) | Modal Bandwidth (MHz/km) | Cable Length |
|---------------|------|-----------|------|------------|--------------------|--------------------------|----------------|
| GLC-GE-100FX= | Min | Тур | Max | MMF | 62.5 | 500 | 2 km (6562 ft) |
| | 1270 | 1300 | 1380 | | 62.5 | | |
| | | | | | 50.0 | | |
| | | | | | 50.0 | | |

Standards

The Cisco 100BASE-FX SFP is compatible with standards as specified in IEEE 802.3z.

Table 2. Fiber Loss Budgets for 100BASE-FX-SFP on Gigabit Ethernet SFP Ports

| SFP | Туре | Cabling | Transmit (dBm) | | Receive (dBm) | |
|---------------|------------|-----------------|----------------|-----|---------------|-------|
| | | | Min | Max | Min | Тур |
| GLC-GE-100FX= | 100BASE-FX | 50/125-micron | -23.5 | -14 | -33.5 | -11.8 |
| | | 62.5/125-micron | -20 | -14 | -33.5 | -11.8 |

Dimensions

• Maximum dimensions (HxWxD): 0.39 x 2.23 x 0.54 in. (9.80 x 56.70 x 13.8 mm)

Environmental Conditions and Power Requirements

- Operating temperature range: 0 to 45 degrees C
- Storage temperature range: -40 to 80 degrees C
- Predicted mean time between failure (MTBF): 12,820,512 hours
- Power consumption: 1.5 W

Table 3. Electrical Power Interface

| Parameter | Symbol | Minimum | Typical | Maximum | Units |
|----------------|--------|---------|---------|---------|-------|
| Supply Current | ls | - | 405 | 450 | mA |
| Surge Current | Isurge | - | 350 | - | mA |
| Input Voltage | Vcc | 3.315 | 3.3 | 3.465 | V |

Warranty

- Standard warranty: 90 days
- Extended warranty (optional): Available under a Cisco SMARTnet[®] support contract

Ordering Information

| SFP | Product Number |
|--|----------------|
| Cisco 100BASE-FX SFP for Gigabit SFP ports | GLC-GE-100FX= |

Regulatory and Standards Compliance

• IEC 60825-1



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