



## 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 hot-swappable 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.

### 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	Wavelength (nm)			Fiber Type	Core Size (micron)	Modal Bandwidth (MHz/km)	Cable Length
	Min	Typ	Max				
GLC-GE-100FX=	1270	1300	1380	MMF	62.5	500	2 km (6562 ft)
					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	Type	Cabling	Transmit (dBm)		Receive (dBm)	
			Min	Max	Min	Typ
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	Is	-	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



#### **Corporate Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

#### **European Headquarters**

Cisco Systems International BV  
Haarlerbergpark  
Haarlerbergweg 13-19  
1101 CH Amsterdam  
The Netherlands  
www-europe.cisco.com  
Tel: 31 0 20 357 1000  
Fax: 31 0 20 357 1100

#### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-7660  
Fax: 408 527-0883

#### **Asia Pacific Headquarters**

Cisco Systems, Inc.  
168 Robinson Road  
#28-01 Capital Tower  
Singapore 068912  
www.cisco.com  
Tel: +65 6317 7777  
Fax: +65 6317 7799

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