DATA SHEET

CISCO 100BASE-X SFP FOR FAST ETHERNET SFP PORTS

PRODUCT OVERVIEW

The Cisco® 100BASE-X Small Form-factor Pluggable (SFP) is a hot-swappable input/output device that plugs into a Fast Ethernet port or slot, linking the port with the network.

Main features include the following:

- Hot-swappable when deployed, the switch or router does not have to reboot.
- Supports the “pay-as-you-populate” model.
- Interchangeable with other 100BASE-X SFPs on the same line card.
- Supports the Cisco quality ID feature that enables the switch or router to identify whether or not the SFP is a Cisco qualified SFP.
- Optically interoperable with respective 100BASE-X Ethernet interfaces on the same link.

Figure 1. Cisco 100M Ethernet SFP

Cisco 100BASE-FX SFP

The Cisco 100BASE-FX SFP (part number GLC-FE-100FX) operates on ordinary multimode fiber-optic (MMF) link spans up to 2 kilometers long.

Cisco 100BASE-LX10 SFP

The Cisco 100BASE-LX10 SFP (part number GLC-FE-100LX) operates on ordinary single-mode fiber-optic (SMF) link spans up to 10 kilometers long.

Cisco 100BASE-BX10 SFP

The Cisco 100BASE-BX10 (part numbers GLC-FE-100BX-D and GLC-FE-100BX-U) SFPs operate on ordinary SMF single-strand link spans up to 10 kilometers long.

Cisco 100BASE-EX SFP

The Cisco 100BASE-EX SFP (part number GLC-FE-100EX) operates on ordinary single-mode fiber-optic (SMF) link spans up to 40 kilometers long.

All contents are Copyright © 1992–2004 Cisco Systems, Inc. All rights reserved. Important Notices and Privacy Statement.

Cisco 100BASE-ZX SFP

The Cisco 100BASE-ZX SFP (part number GLC-FE-100ZX) operates on ordinary single-mode fiber-optic (SMF) link spans up to 80 kilometers long.

TECHNICAL SPECIFICATIONS

Platform Support

The Cisco SFPs are supported across a variety of Cisco Systems® switches, routers, and optical transport devices. For more details, refer to the document *Cisco 100M Ethernet SFP Compatibility Matrix*.

Connectors and Cabling

- Connectors: Dual LC connector (GLC-FE-100FX and GLC-FE-100LX) or single LC connector (GLC-FE-BX-D and GLC-FE-BX-U)

Table 1 provides cabling specifications for the SFPs for installation in a Fast Ethernet SFP port. Note that all SFP ports have LC-type connectors, and the minimum cable distance for all SFPs listed (MMF and SMF [G.652] is 2 meters [6.5 feet]).

Table 1. SFP Port Cabling Specifications

SFP	Wavelength (nm)	Fiber Type	Cable Distance
GLC-FE-100FX	1310	MMF	2 km (6562 ft)
GLC-FE-100LX	1310	SMF	10 km (32,810 ft)
GLC-FE-100BX-U	1310	SMF	10 km (32,810 ft)
GLC-FE-100BX-D	1550	SMF	10 km (32,810 ft)
GLC-FE-100EX	1310	SMF	40 km (131,240 ft)
GLC-FE-100ZX	1550	SMF	80 km (262,480 ft)

© 2004 Cisco Systems, Inc. All rights reserved.
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on cisco.com.

GLC-FE-100EX	100BASE-EX	0	-5	-8	-28
GLC-FE-100ZX	100BASE-ZX	2	-3	-8	-30

Dimensions

- Dimensions (H x W x D): 8.5 x 13.4 x 56.5 mm

Environmental Conditions and Power Requirements

- Operating temperature range: 0 to 50°C (32 to 122°F)
- Storage temperature range: –40 to 85°C (–40 to 185°F)

© 2004 Cisco Systems, Inc. All rights reserved.
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on cisco.com.

Table 3. Electrical Power Interface

Parameter	Symbol	Minimum	Typical	Maximum	Units
Supply Current	Is	–	200	300	mA
Surge Current	I^{Surge}	–	–	30	mA
Input Voltage	V^{cc}	3.1	3.3	3.5	V

Warranty

- Standard warranty: 90 days
- Extended warranty (option): Available under a Cisco SMARTnet™ support contract for the Cisco switch or router chassis

ORDERING INFORMATION

Table 4 gives ordering information for the Cisco SFP.

Table 4. Ordering Cisco SFP

Product Number	SFP
GLC-FE-100FX	100BASE-FX SFP for Fast Ethernet SFP ports
GLC-FE-100LX	100BASE-LX10 SFP for Fast Ethernet SFP ports
GLC-FE-100BX-U	100BASE-BX10-U SFP for Fast Ethernet SFP ports
GLC-FE-100BX-D	100BASE-BX10-D SFP for Fast Ethernet SFP ports
GLC-FE-100EX	100BASE-EX for Fast Ethernet SFP Ports
GLC-FE-100ZX	100BASE-ZX for Fast Ethernet SFP Ports

Regulatory and Standards Compliance

Safety

- Laser Class 1 21CFR1040

ADDITIONAL INFORMATION

For more information about Cisco 100BASE-X SFPs for Fast Ethernet SFP ports, contact:

- United States and Canada: 800 553-6387
- Europe: 32 2 778 4242
- Australia: 61 2 9935 4107
- Other: 408 526-7209
- http://www.cisco.com

© 2004 Cisco Systems, Inc. All rights reserved.
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on cisco.com.

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

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Web site at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2004 Cisco Systems, Inc. All rights reserved. CCIP, CCSP, the Cisco *Powered* Network mark, Cisco Unity, Follow Me Browsing, FormShare, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherSwitch, Fast Step, GigaStack, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MGX, MICA, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, RateMUX, Registrar, ScriptShare, SlideCast, SMARTnet, StrataView Plus, Stratm, SwitchProbe, TeleRouter, The Fastest Way to Increase Your Internet Quotient, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0402R)

204108.81_ETMG_CM_12.04

Printed in the USA

© 2004 Cisco Systems, Inc. All rights reserved.
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on cisco.com.