



Cisco SFP GLC Module Datasheet



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Contact Us

Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166 /

Fax: +852-3050-1066 (Hong Kong)

Email: cisco@router-switch.com (Sales Inquiries)

ccie-support@router-switch.com (CCIE Technical Support)

OVERVIEW

Cisco SFPs can meet Cisco users' different needs, GLC-SX-MMD, the 1000BASE-SX SFP, can support up to 1km over laser-optimized 50 μm multimode fiber cable; GLC-LH-SM, Cisco 1000BASE-LX/LH SFP transceiver module, operates on standard single-mode fiber-optic link spans of up to 10 km and up to 550 m on any multimode fibers; GLC-T over unshielded twisted pair (UTP) Category 5 Cable, etc. Cisco SFP+(the 10G fiber optical module) can connect with other type of 10G modules. SFP-10G-SR, used for high-speed data transmission applications, supports 300m by MMF; SFP-10G-LRM supports 220m on standard FDDI grade multimode fiber (MMF) and 300m on standard single-mode fiber (SMF, G.652); SFP-10G-LR, supports 10 km on standard single-mode fiber (SMF, G.652). See more detailed modules as follow, comes with best price and a good warranty.

APPEARANCE

Figure 1. CISCO SFP GLC MODULE



KEY 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**

PRODUCT SPECIFICATIONS OF CISCO SFP GLC MODULE

Product	Wavelength (nm)	Fiber Type	Core Size (μm)	Modal Bandwidth (MHz* Km)***	Operating Distance (m)
1000BASE-SX	850	MMF	62.5	160 (FDDI-grade)	220 (722 ft)
			62.5	200 (OM1)	275 (902 ft)
			50	400 (400/400)	500 (1,640 ft)
			50	500 (OM2)	550 (1,804 ft)
			50	2000 (OM3)	1000 (3281 ft)
1000BASE-LX/LH	1310	MMF*	62.5	500	550 (1,804 ft)
			50	400	550 (1,804 ft)
			50	500	550 (1,804 ft)
		SMF	_**	-	10,000 (32,821 ft)
1000BASE-EX	1310	SMF	_**	-	40,000 (131,234 ft)
1000BASE-ZX	1550	SMF	-	-	Approximately 70 km depending on link loss
1000BASE-BX-U	1310	SMF	_**	-	10,000 (32,821 ft)
1000BASE-BX-D	1490	SMF	_**	-	10,000 (32,821 ft)
GLC-BX40-D-I	1550	SMF	_**	-	40,000 (131,234 ft)
GLC-BX40-DA-I	1490	SMF	_**	-	40,000 (131,234 ft)
GLC-BX40-U-I	1310	SMF	_**	-	40,000 (131,234 ft)
GLC-BX80-D-I	1570	SMF	_**	-	80,000 (262,467 ft)

GLC-BX80-U-I	1490	SMF	._**	-	80,000 (262,467 ft)
GLC-GE-DR-LX	1310	SMF	._**	-	10,000 (32,821 ft)

* A mode-conditioning patch cord, as specified by the IEEE standard, is required regardless of the span length. Note how the mode conditioning patch cord for 62.5- μ m fibers has a different specification from the mode-conditioning patch cord for 50- μ m fibers.

** ITU-T G.652 SMF as specified by the IEEE 802.3z standard.

*** Specified at transmission wavelength.

CISCO SFP GLC MODULE BASIC ORDERING INFORMATION

Description	Model
1000BASE-T SFP	GLC-T
GE SFP, LC connector SX transceiver	GLC-SX-MM
GE SFP, LC connector LX/LH transceiver	GLC-LH-SM
1000BASE-ZX SFP	GLC-ZX-SM
1000BASE-BX SFP, 1490NM	GLC-BX-D
1000BASE-BX SFP, 1310NM	GLC-BX-U
100BASE-FX SFP for FE port	GLC-FE-100FX
100BASE-LX SFP for FE port	GLC-FE-100LX
100BASE-BX10-U SFP	GLC-FE-100BX-U
100BASE-BX10-D SFP	GLC-FE-100BX-D
100BASE-EX SFP (40km)	GLC-FE-100EX
100BASE-ZX SFP (80km)	GLC-FE-100ZX

1000BASE-T SFP (NEBS 3 ESD)	SFP-GE-T
1000BASE-LX/LH SFP (DOM)	SFP-GE-L
1000BASE-SX SFP (DOM)	SFP-GE-S
1000BASE-ZX Gigabit Ethernet SFP (DOM)	SFP-GE-Z
OC3/STM1 SFP, Multi-mode fiber	SFP-OC3-MM
OC3/STM1 SFP, Single-mode fiber, Short Reach	SFP-OC3-SR
OC3/STM1 SFP, Single-mode fiber, Intermediate Reach	SFP-OC3-IR1
OC3/STM1 SFP, Single-mode fiber, Long Reach (40km)	SFP-OC3-LR1
OC3/STM1 SFP, Single-mode fiber, Long Reach (80km)	SFP-OC3-LR2
OC-12/ STM-4 SFP, Multi-mode Fiber	SFP-OC12-MM
OC12/STM4 SFP, Short Reach	SFP-OC12-SR
OC-12/ STM-4 SFP, Intermediate Reach (15km)	SFP-OC12-IR1
OC-12/ STM-4 SFP, Long Reach (40km)	SFP-OC12-LR1
OC-12/ STM-4 SFP, Long Reach (80km)	SFP-OC12-LR2
OC-48c/STM-16c	SFP-OC48-IR1
OC-48c/STM-16c SFP, Long Reach (80km)	SFP-OC48-LR2
CWDM 1470 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1470
CWDM 1490 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1490
CWDM 1510 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1510

CWDM 1530 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1530
CWDM 1550 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1550
CWDM 1570 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1570
CWDM 1590 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1590
CWDM 1610 NM SFP Gigabit Ethernet and 1G/2G FC	CWDM-SFP-1610
10GBASE-LR SFP+ Module for SMF 10 Gbps	SFP-10G-LR HW
10GBASE-SR SFP Module	SFP-10G-SR
Cisco GLC-FE-100FX-RGD 100Base-FX Multi Mode Rugged SFP	GLC-FE-100FX-RGD
Cisco GLC-FE-100LX-RGD 100Mbps Single Mode Rugged SFP	GLC-FE-100LX-RGD
Cisco GLC-SX-MM-RGD 1000Mbps Multi-Mode Rugged SFP	GLC-SX-MM-RGD
Cisco GLC-LX-SM-RGD 1000Mbps Single Mode Rugged SFP	GLC-LX-SM-RGD
Cisco GLC-ZX-SM-RGD 1000BASE-ZX Single Mode Rugged SFP	GLC-ZX-SM-RGD
Cisco GLC-EX-SMD GE SFP, LC Connector, EX transceiver	GLC-EX-SMD
Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	GLC-SX-MMD
Cisco GLC-ZX-SMD 1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM	GLC-ZX-SMD
Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	GLC-LH-SMD
10GBASE-LRM SFP Module	SFP-10G-LRM

SFP+ transceiver module, 8.5 Gbps, MDS9000, Fabric Channel	DS-SFP-FC8G-SW
OC-48c/STM-16c SFP, Short Reach	SFP-OC48-SR
SFP-10G-SR-X= 10GBASE-SR SFP Module, LC connector, 850nm, 300m range, multimode fiber (MMF), extended operating temperature range	SFP-10G-SR-X=
10GBASE-SR SFP Module, Enterprise-Class	SFP-10G-SR-S
1000BASE-BX10 SFP module for single-strand SMF, 1550-nm TX/1310-nm RX wavelength, single LC/PC connector	GLC-BX40-D-I
1000BASE-BX10 SFP module for single-strand SMF, 1310-nm TX/1550-nm RX wavelength, single LC/PC connector	GLC-BX40-U-I
1000BASE-BX10 SFP module for single-strand SMF, 1570-nm TX/1490-nm RX wavelength, single LC/PC connector	GLC-BX80-D-I
1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1570-nm RX wavelength, single LC/PC connector	GLC-BX80-U-I
1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength, single LC/PC connector	GLC-BX40-DA-I
Dual-channel 1000BASE-BX10 SFP module for single-strand SMF, 1490-nm TX/1310-nm RX wavelength, two single LC/PC connectors	GLC-2BX-D=
Gigabit passive optical network (GPON) Class B+ SFP OLT transceiver module, 1490-nm TX/1310-nm RX wavelength	SFP-GPON-B
Gigabit passive optical network (GPON) Class B+ SFP OLT transceiver module, 1490-nm TX/1310-nm RX wavelength, industrial temperature range	SFP-GPON-B-I
Gigabit passive optical network (GPON) Class C+ SFP OLT transceiver module, 1490-nm TX/1310-nm RX wavelength	SFP-GPON-C

Gigabit passive optical network (GPON) Class C+ SFP OLT transceiver module, 1490-nm TX/1310-nm RX wavelength, industrial temperature range	SFP-GPON-C-I
1000BASE-T SFP transceiver module for Category 5 copper wire	GLC-TE
1000BASE-T SFP	GLC-TE++=
QSFP to SFP10G adapter	CVR-QSFP-SFP10G
X2 to SFP+ Adaptor module	CVR-X2-SFP10G
16 Gbps Fibre Channel SW SFP+, LC	DS-SFP-FC16G-SW
QSFP40G BiDi Short-reach Transceiver	QSFP-40G-SR-BD HW
QSFP 40GBASE-LR4 Trnscvr Mod. LC. 10km. Enterprise-Class	QSFP-40G-LR4-S
4 Gbps Fibre Channel-SW SFP. LC. 4 pack. Spare	DS-SFP-4G-SW-4=
40GBASE-SR4 (IEEE 802.3ba Spec.) QSFP+ transceiver module for MMF, MPO/MTP connector	QSFP-40G-SR4-S=
40GBASE-LR4 QSFP transceiver module for SMF, duplex LC connector, up to 2km	WSP-Q40GLR4L
40GBASE-LR4 QSFP+ transceiver module for SMF, duplex LC connector, 10km reach	QSFP-40GE-LR4-S
40GBASE-LR4 QSFP+ transceiver module for SMF, 4 CWDM lanes in 1310nm window Mixed inside module, duplex LC connector, 10km reach	QSFP-40GE-LR4
QSFP 4x10GBASE-SR Transceiver Module, MPO, 300M	QSFP-40G-CSR4
Cisco 10GBASE-ER SFP+ Module for SMF	SFP-10G-ER
40GBASE-SR4 QSFP Transceiver Module with MPO Connector	QSFP-40G-SR4

Cisco 10GBASE-ZR SFP10G Module for SMF	SFP-10G-ZR
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ADDITIONAL INFORMATION

[Features and Benefits of Cisco 25G, QSFP and QSFP28 Modules](#)

[Upgrade Seamlessly From 40Gb or 10Gb-Cisco 40/100Gb QSFP100 BiDi Pluggable Transceiver](#)

[What Are SFP Ports Used For?](#)

[GLC-T vs. SFP-GE-T](#)

[Cisco XFP vs. SFP vs. SFP+](#)

[Cisco SFP vs. GBIC vs. XEP vs. SFP Plus](#)

[Cisco Transceiver Modules Overview & the Latest SFP Transceivers](#)

WHERE TO BUY

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- Email: sales@router-switch.com (Sales Inquiries)

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SOURCES

https://www.cisco.com/c/en/us/products/collateral/interfaces-modules/gigabit-ethernet-gbic-sfp-modules/product_data_sheet0900aecd8033f885.html