



# Cisco 100-Megabit Ethernet SFP Modules Compatibility Matrix

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Revised: 12/20/2009



**Note**

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For the clearest readability of these tables, please use the PDF version provided in the upper right side of your browser screen. The HTML version may have confusing alignment of table data.

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**Note**

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Requirements and procedures for initial configurations and software upgrades tend to change and therefore appear only in the switch or router software release notes. Before installing, configuring, or upgrading a switch, refer to the product release notes on Cisco.com for the latest information. This matrix does not replace or supersede the release notes.

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This document describes the Cisco platforms and software versions that support the 100-Megabit Ethernet Small Form-Factor Pluggable (SFP) modules. [Table 1](#) lists the model numbers and operating wavelengths for the modules. The other tables are as follows:

- [Table 2, Router Support and Minimum Software Requirements](#)
- [Table 3, Catalyst 6500 Series Support and Minimum Software Requirements](#)
- [Table 4, Metro Ethernet Support and Minimum Software Requirements](#)
- [Table 5, Catalyst 4500 Series Support and Minimum Software Requirements](#)
- [Table 6, Cisco IE3000 Series Support and Minimum Software Requirements](#)
- [Table 7, Catalyst 3XXX Series Support and Minimum Software Requirements](#)
- [Table 8, Catalyst 2XXX Series Support and Minimum Software Requirements](#)
- [Table 9, Catalyst Express 500 Support and Minimum Software Requirements](#)



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**Americas Headquarters:**  
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

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**Table 1 100-MB Ethernet SFP Module Models**

Model Number	Description
GLC-GE-100FX=	100BASE-FX SFP module for Gigabit Ethernet ports, 1310 nm wavelength, 2 km over MMF <sup>1</sup>
GLC-FE-100FX=	100BASE-FX SFP module for 100-MB ports, 1310 nm wavelength, 2 km over MMF
GLC-FE-100EX=	100BASE-FX SFP module for 100-MB ports, 1310 nm wavelength, 40 km over SMF
GLC-FE-100LX=	100BASE-FX SFP module for 100-MB ports, 1310 nm wavelength, 10 km over SMF <sup>2</sup>
GLC-FE-100BX-D=	100BASE-BX10-D SFP module for 100-MB ports, 1550 nm TX <sup>3</sup> /1310 nm RX <sup>4</sup> wavelength, 10 km over single-strand SMF
GLC-FE-100BX-U=	100BASE-BX10-U SFP module for 100-MB ports, 1310 nm TX/1550 nm RX wavelength, 10 km over single-strand SMF
GLC-FE-100ZX=	100BASE-ZX SFP module for 100-MB ports, 1550 nm wavelength, 80 km over SMF
GLC-FE-100FX-RGD=	100BASE-FX SFP module for Industrial Ethernet 100-MB ports, 1310 nm wavelength, 2 km over MMF
GLC-FE-100LX-RGD=	100BASE-LX SFP module for Industrial Ethernet 100-MB ports, 1310 nm wavelength, 10 km over SMF

1. MMF = multi-mode fiber
2. SMF = single-mode fiber
3. TX = transmit
4. RX = receive



**Note** When you order one of the devices listed, you must order the SFP modules separately.

**Table 2 Router Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco 2900 Series Router	Cisco 2921 Cisco 2951	GLC-GE-100FX	—	15.0(1)M
	SM-D-ES3G-48-P SM-D-ES3-48-P SM-D-ES2-48	GLC-GE-100FX	—	15.0(1)M
Cisco 3900 Series Router	Cisco 3925 Cisco 3945	GLC-GE-100FX	—	15.0(1)M
	SM-D-ES3G-48-P SM-D-ES3-48-P SM-D-ES2-48	GLC-GE-100FX	—	15.0(1)M
Cisco 7200 Series	NPE-G2 Native Gigabit Ethernet Port and 7201 <sup>1</sup> series	GLC-GE-100FX	—	12.2(33)SRC2 12.4(15)T7 12.4(20)T1

**Table 2 Router Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco 7600 Series	WS-X6148-FE-SFP	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(18)SXF
ASR_1000 Series Router	ASR1002	GLC-GE-100FX	—	XE 2.2
ASR 9000 Router Series	A9K-40GE-B A9K-40GE-E	GLC-GE-100FX	—	XR 3.7.2
Shared Port Adapters (SPAs)	SPA-5X1GE-V2 SPA-10X1GE-V2	GLC-GE-100FX	SPA software support is determined by the platform on which the SPA is installed. Refer to the SPA release notes for the correct software release.	

1. Only for Gigabit Ethernet 0/0, 0/1 and 0/2.

**Table 3 Catalyst 6500 Series Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Catalyst 6500 series	WS-X6148-FE-SFP	GLC-FE-100FX	8.4(1)	12.2(18)SXF
		GLC-FE-100LX	8.4(1)	12.2(18)SXF
		GLC-FE-100BX-D	8.4(1)	12.2(18)SXF
		GLC-FE-100BX-U	8.4(1)	12.2(18)SXF
		GLC-FE-100EX	8.5(1)	12.2(18)SXF3
		GLC-FE-100ZX	8.5(1)	12.2(18)SXF3

**Table 4 Metro Ethernet Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
ME 6500 Series	ME-C6524GS-8S ME-C6524GT-8S	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-FE-100EX GLC-FE-100ZX	—	12.2(18)ZU
Catalyst 3750 Metro	ME-C3750-24TE-MA (non-ES ports only) ME-C3750-24TE-MD (non-ES ports only)	GLC-GE-100FX	—	12.2(25)EY

**Table 4 Metro Ethernet Support and Minimum Software Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco ME 3400	ME-3400-24TS-A ME-3400-24TS-D	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U  GLC-FE-100EX GLC-FE-100ZX	—	12.2(25)EX      12.2(46)SE
	ME-3400G-12CS-A ME-3400G-12CS-D	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U  GLC-FE-100EX GLC-FE-100ZX	—	12.2(25)SEG1      12.2(46)SE
	ME-3400G-2CS-A	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U  GLC-FE-100EX GLC-FE-100ZX	—	12.2(35)SE1      12.2(46)SE
	ME-3400-24FS-A	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U  GLC-FE-100EX GLC-FE-100ZX	—	12.2(40)SE      12.2(46)SE
	ME-3400E-24TS-M ME-3400EG-2CS-A ME-3400EG-12CS-M	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-FE-100EX GLC-FE-100ZX	—	12.2(44)EY
Cisco ME 2400	ME-2400-24TS-A ME-2400-24TS-D	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(25)EX

**Table 5 Catalyst 4500 Series Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Catalyst 4500 series	WS-X4248-FE-SFP	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(25)SG

**Table 6 Cisco IE3000 Series Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco IE3000 series	IE-3000-4TC	GLC-FE-100FX-RGD GLC-FE-100LX-RGD	—	12.2(44)EX
	IE-3000-8TC	GLC-FE-100BX-D GLC-FE-100BX-U		12.2(50)SE

**Table 7 Catalyst 3XXX Series Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required			
			Catalyst Operating System	Cisco IOS Release		
Catalyst 3750 series	WS-C3750-24PS	GLC-GE-100FX	—	12.2(20)SE		
	WS-C3750-24TS			12.2(20)SE		
	WS-C3750-48PS			12.2(20)SE		
	WS-C3750-24FS-S			12.2(25)SEB		
	WS-C3750-48TS			12.2(20)SE		
	WS-C3750G-12S			12.2(20)SE		
	WS-C3750G-24PS			12.2(20)SE3		
	WS-C3750G-24TS			12.2(20)SE3		
	WS-C3750G-24TS-E1U			12.2(20)SE3		
	WS-C3750G-24TS-S1U			12.2(20)SE3		
	WS-C3750G-48PS			12.2(20)SE3		
	WS-C3750G-48TS			12.2(20)SE3		
	WS-C3750V2-24PS			GLC-GE-100FX	—	12.2(50)SE
	WS-C3750V2-24TS					
WS-C3750V2-48PS						
WS-C3750V2-48TS						
Catalyst 3750-E Series	WS-C3750E-24TD	GLC-GE-100FX	Not supported	12.2(35)SE2		
	WS-C3750E-24PD					
	WS-C3750E-48TD					
	WS-C3750E-48PD					
	WS-C3750E-48PDF					

**Table 7 Catalyst 3XXX Series Support and Minimum Software Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Catalyst 3560 Series	WS-C3560-24PS WS-C3560-48PS WS-C3560-24TS WS-C3560-48TS WS-C3560G-24PS WS-C3560G-24TS WS-C3560G-48PS WS-C3560G-48TS	GLC-GE-100FX	—	12.2(20)SE 12.2(20)SE 12.2(20)SE 12.2(20)SE 12.2(20)SE3 12.2(20)SE3 12.2(20)SE3 12.2(20)SE3
	WS-C3560-8PC	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(35)SE
	WS-C3560-12PC-S	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(46)SE
	WS-C3560V2-24PS WS-C3560V2-24TS WS-C3560V2-48PS WS-C3560V2-48TS	GLC-GE-100FX	—	12.2(50)SE
Catalyst 3560-E Series	WS-C3560E-24TD WS-C3560E-24PD WS-C3560E-48TD WS-C3560E-48PD WS-C3560E-48PDF	GLC-GE-100FX	Not supported	12.2(35)SE2
	WS-C3560E-12SD WS-C3560E-12D	GLC-GE-100FX	Not supported	12.2(44)SE

**Table 8 Catalyst 2XXX Series Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Catalyst 2970 series	WS-C2970G-24TS-E	GLC-GE-100FX	—	12.2(20)SE
Catalyst 2960 series	WS-C2960-24TC-L	GLC-GE-100FX	—	12.2(25)FX
	WS-C2960-48TC-L	GLC-FE-100FX		
	WS-C2960G-24TC-L	GLC-FE-100LX		
		GLC-FE-100BX-D		
	WS-C2960-24TC-S	GLC-GE-100FX	—	12.2(37)EY
		WS-C2960-48TC-S		
	WS-C2960-8TC-L	GLC-FE-100FX	—	12.2(35)SE
		WS-C2960G-8TC-L		
WS-C2960G-48TC-L	GLC-FE-100BX-D			
	GLC-FE-100BX-U			
WS-C2960-24PC-L	GLC-GE-100FX	—	12.2(44)SE	
	GLC-FE-100FX			
	GLC-FE-100LX			
	GLC-FE-100BX-D			
	GLC-FE-100BX-U			
WS-2960-8TC-S	GLC-FE-100FX	—	12.2(46)SE	
WS-2960-48PST-L	GLC-GE-100FX	—	12.2(46)SE	
	GLC-FE-100FX			
	GLC-FE-100LX			
	GLC-FE-100BX-D			
	GLC-FE-100BX-U			

**Table 9 Catalyst Express 500 Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Cisco IOS Release	DOM Support
Catalyst Express 500	WS-CE500-24LC WS-CE500-24PC WS-CE500G-12TC	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-GE-100FX	12.2(25)FY	—
Catalyst Express 520	WS-CE520-8PC-K9	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-GE-100FX	12.2(35)EX	—
	WS-CE520-24LC-K9 WS-CE520-24PC-K9 WS-CE520G-24TC-K9	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-GE-100F	12.2(37)EX	—

## Related Documentation

Refer to the [Cisco Small Form-Factor Pluggable Modules Installation Notes](#) for hardware information.

Other documents that provide compatibility information about the SFP modules and the devices supporting them are available from this URL:

[http://www.cisco.com/en/US/products/hw/modules/ps5455/products\\_device\\_support\\_tables\\_list.html](http://www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html)

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