



# Cisco 100-Megabit Ethernet SFP Modules Compatibility Matrix

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**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 Industrial Ethernet and Smart Grid 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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**Table 1 100-MB Ethernet SFP Transceiver Module Models**

Model Number	Description
<b>GLC-GE-100FX=</b>	100BASE-FX SFP module for Gigabit Ethernet ports, 1310 nm wavelength, 2 km over MMF <sup>1</sup>
<b>GLC-FE-100FX=</b>	100BASE-FX SFP module for 100-MB ports, 1310 nm wavelength, 2 km over MMF
<b>GLC-FE-100EX=</b>	100BASE-FX SFP module for 100-MB ports, 1310 nm wavelength, 40 km over SMF
<b>GLC-FE-100LX=</b>	100BASE-FX SFP module for 100-MB ports, 1310 nm wavelength, 10 km over SMF <sup>2</sup>
<b>GLC-FE-100BX-D=</b>	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
<b>GLC-FE-100BX-U=</b>	100BASE-BX10-U SFP module for 100-MB ports, 1310 nm TX/1550 nm RX wavelength, 10 km over single-strand SMF
<b>GLC-FE-100ZX=</b>	100BASE-ZX SFP module for 100-MB ports, 1550 nm wavelength, 80 km over SMF
<b>GLC-FE-100FX-RGD=</b>	100BASE-FX SFP module for Industrial Ethernet 100-MB ports, 1310 nm wavelength, 2 km over MMF
<b>GLC-FE-100LX-RGD=</b>	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
<a href="#">Cisco 892F Series</a>	CISCO892F-K9 CISCO892FW-K9	GLC-GE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	15.1(2)T
<a href="#">Cisco 1921 Series Router</a>	EHWIC-1GE-SFP-CU	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100EX GLC-FE-100ZX GLC-FE-100BX-D GLC-FE-100BX-U	—	15.1(4)M

**Table 2 Router Support and Minimum Software Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco 1941 Series Router	EHWIC-1GE-SFP-CU	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100EX GLC-FE-100ZX GLC-FE-100BX-D GLC-FE-100BX-U	—	15.1(4)M
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
	EHWIC-1GE-SFP-CU	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100EX GLC-FE-100ZX GLC-FE-100BX-D GLC-FE-100BX-U	—	15.1(4)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
	EHWIC-1GE-SFP-CU	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100EX GLC-FE-100ZX GLC-FE-100BX-D GLC-FE-100BX-U	—	15.1(4)M

**Table 2 Router Support and Minimum Software Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
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
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
	7600-ES20-GE3CXL 7600-ES20-GE3C 7600-ES+20G3C 7600-ES+20G3CXL 7600-ES+40G3C 7600-ES+40G3CXL 76-ES+T-20G 76-ES+T-40G 76-ES+XC-20G3C 76-ES+XC-20G3CXL 76-ES+XC-40G3C 76-ES+XC-40G3CXL	GLC-GE-100FX	—	15.0(1)S
ASR_1000 Series Router	ASR1001 ASR1002 ASR1002-F	GLC-GE-100FX	—	XE 2.5
ASR 9000 Series Router	A9K-40GE-B A9K-40GE-E	GLC-GE-100FX	—	XR 3.7.3
	A9K-2T20GE-B A9K-2T20GE-E A9K-40GE-L	GLC-GE-100FX	—	XR 3.9.0
	A9K-MPA-20X1GE	GLC-GE-100FX	—	XR 4.2.0
Cisco ASR 903 Series	A900-IMA8S	GLC-FE-100FX-RGD GLC-FE-100LX-RGD	—	XE 3.5.0S
Shared Port Adapters (SPAs)	SPA-5X1GE-V2 SPA-8X1GE-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	—	12.2(18)ZU
		GLC-FE-100LX		
		GLC-FE-100BX-D		
		GLC-FE-100BX-U		
		GLC-FE-100EX		
		GLC-FE-100ZX		
Catalyst 3750 Metro	ME-C3750-24TE-MA (non-ES ports only)	GLC-GE-100FX	—	12.2(25)EY
	ME-C3750-24TE-MD (non-ES ports only)			
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

**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 (continued)	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
Cisco ME 3600X	ME-3600X-24FS-M (client ports only)	GLC-FE-100FX GLC-FE-100LX GLC-FE-100EX GLC-FE-100ZX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(52)EY
Cisco ME 3800X	ME-3800X-24FS-M (client ports only)	GLC-FE-100FX GLC-FE-100LX GLC-FE-100EX GLC-FE-100ZX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(52)EY

**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
	WS-X4640-CSFP-E WS-4624-SFP-E WS-X4612-SFP-E WS-4448-GB-SFP	GLC-GE-100FX	—	15.1(1)SG

**Table 6 Cisco Industrial Ethernet and Smart Grid Series Support and Minimum Software Requirements**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco IE2000 series	IE-2000-4TS-L	GLC-FE-100FX-RGD	—	15.0(1)EY
	IE-2000-4TS-B	GLC-FE-100LX-RGD		
	IE-2000-8TC-L	GLC-FE-100FX		
	IE-2000-8TC-B	GLC-FE-100LX		
	IE-2000-16TC-L	GLC-FE-100EX <sup>1</sup>		
	IE-2000-16TC-B	GLC-FE-100ZX		
	IE-2000-16TC-G-L	GLC-FE-100BX-D		
	IE-2000-16TC-G-E	GLC-FE-100BX-U		
	IE-2000-16TC-G-X			
	IE-2000-16TC-G-N			
Cisco IE3000 series	IE-3000-4TC	GLC-FE-100FX-RGD	—	12.2(44)EX
	IE-3000-8TC	GLC-FE-100LX-RGD		12.2(50)SE
		GLC-FE-100BX-D GLC-FE-100BX-U GLC-FE-100EX <sup>1</sup>		12.2(55)SE
Cisco IE3010 series	IE-3010-16S-8PC	GLC-FE-100FX-RGD GLC-FE-100LX-RGD GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-FE-100EX GLC-FE-100ZX	—	12.2(53)EZ

**Table 6 Cisco Industrial Ethernet and Smart Grid Series Support and Minimum Software Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco 2500 Connected Grid Switch Series	CGS-2520-24TC CGS-2520-16S-8PC	GLC-FE-100FX-RGD GLC-FE-100LX-RGD GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U GLC-FE-100EX GLC-FE-100ZX	—	12.2(53)EX
Cisco 2000 Connected Grid Router Series	CGR 2010	GLC-FE-100FX-RGD GLC-FE-100LX-RGD	—	15.1(1)T

1. Only Version -02 or later is supported.

**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 WS-C3750-24TS WS-C3750-48PS WS-C3750-48TS WS-C3750G-12S WS-C3750G-24PS WS-C3750G-24TS WS-C3750G-24TS-E1U WS-C3750G-24TS-S1U WS-C3750G-48PS WS-C3750G-48TS	GLC-GE-100FX	—	12.2(20)SE 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 12.2(20)SE3 12.2(20)SE3
	WS-C3750-24FS-S	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(25)SEB
	WS-C3750V2-24PS WS-C3750V2-24TS WS-C3750V2-48PS WS-C3750V2-48TS	GLC-GE-100FX	—	12.2(50)SE
	WS-C3750V2-24FS-S	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(50)SE

**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 3750-E Series	WS-C3750E-24TD WS-C3750E-24PD WS-C3750E-48TD WS-C3750E-48PD WS-C3750E-48PDF	GLC-GE-100FX	Not supported	12.2(35)SE2
Catalyst 3750-X Series	WS-C3750X-24T WS-C3750X-48T WS-C3750X-24P WS-C3750X-48P WS-C3750X-48PF  With C3KX-NM-1G network module	GLC-GE-100FX	—	12.2(53)SE
	WS-C3750X-12S WS-C3750X-24S  Client ports and uplink ports with C3KX-NM-1G network module	GLC-GE-100FX	—	12.2(58)SE1
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

**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
	WS-C3560E-12SD WS-C3560E-12D	GLC-GE-100FX	Not supported	12.2(44)SE
Catalyst 3560-X Series	WS-C3560X-24T WS-C3560X-48T WS-C3560X-24P WS-C3560X-48P WS-C3560X-48PF With C3KX-NM-1G network module	GLC-GE-100FX	—	12.2(53)SE
Catalyst 3560-C Series	WS-C3560CG-8TC-S WS-C3560CG-8PC-S	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(55)EX
	WS-C3560C-8PC-S WS-C3560C-12PC-S	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(55)EX3

**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		
		GLC-FE-100BX-U		
	WS-C2960-24TC-S	GLC-GE-100FX	—	12.2(37)EY
	WS-C2960-48TC-S	GLC-FE-100FX		
	WS-C2960-8TC-L	GLC-FE-100FX	—	12.2(35)SE
	WS-C2960G-8TC-L	GLC-FE-100LX		
		GLC-FE-100BX-D		
		GLC-FE-100BX-U		
	WS-C2960G-48TC-L	GLC-GE-100FX	—	12.2(25)SEE
		GLC-FE-100FX		
		GLC-FE-100LX		
		GLC-FE-100BX-D		
		GLC-FE-100BX-U		

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

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required		
			Catalyst Operating System	Cisco IOS Release	
Catalyst 2960 series (continued)	WS-C2960-24PC-L	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(44)SE	
	WS-2960-8TC-S	GLC-FE-100FX	—	12.2(46)SE	
	WS-2960-48PST-L	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(46)SE	
Catalyst 2960-S Series	WS-C2960S-24TS-S WS-C2960S-48TS-S	GLC-GE-100FX GLC-FE-100FX	—	12.2(53)SE1	
	WS-C2960S-48FPS-L WS-C2960S-48LPS-L WS-C2960S-24PS-L WS-C2960S-48TS-L WS-C2960S-24TS-L	GLC-GE-100FX GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	—	12.2(53)SE1	
	Catalyst 2960-C Series	WS-C2960CG-8TC-L	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	Not supported	12.2(55)EX1
		WS-C2960C-8TC-S	GLC-FE-100FX	Not supported	12.2(55)EX3
		WS-C2960C-8TC-L WS-C2960C-8PC-L WS-C2960C-12PC-L	GLC-FE-100FX GLC-FE-100LX GLC-FE-100BX-D GLC-FE-100BX-U	Not supported	12.2(55)EX3

**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	—

**Table 9** Catalyst Express 500 Support and Minimum Software Requirements (continued)

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Cisco IOS Release	DOM Support
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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