



Cisco OC-3/OC-12/OC-48 SFP Transceiver Modules Compatibility Matrix

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Note

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.



Note

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.

This publication contains information about the Cisco platforms and software versions that support the OC-3/OC-12/OC-48 Small Form-Factor Pluggable (SFP) transceiver modules. [Table 1](#) lists the model numbers and operating wavelengths for the OC-3/OC-12/OC-48 SFP transceiver modules. [Table 2](#) lists the Cisco platforms that support the OC-3/OC-12/OC-48 SFP transceiver modules and the minimum software requirements.

Table 1 OC-3/OC-12/OC-48 SFP Transceiver Models

OC-3/OC-12/OC-48 SFP Transceiver Model Number	Transceiver Description
SFP-OC3-MM=	OC-3/STM-1 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, MMF, LC connector
SFP-OC3-SR=	OC-3/STM-1 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, LC connector
SFP-OC3-IR1=	OC-3/STM-1 pluggable intermediate-reach (15 km) transceiver module, 1310-nm wavelength, LC connector
SFP-OC3-LR1=	OC-3/STM-1 pluggable long-reach (40 km) transceiver module, 1310-nm wavelength, LC connector



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Table 1 OC-3/OC-12/OC-48 SFP Transceiver Models (continued)

OC-3/OC-12/OC-48 SFP Transceiver Model Number	Transceiver Description
SFP-OC3-LR2=	OC-3/STM-1 pluggable long-reach (80 km) transceiver module, 1550-nm wavelength, LC connector
SFP-OC12-MM=	OC-12/STM-4 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, MMF, LC connector
SFP-OC12-SR=	OC-12/STM-4 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, LC connector
SFP-OC12-IR1=	OC-12/STM-4 pluggable intermediate-reach (15 km) transceiver module, 1310-nm wavelength
SFP-OC12-LR1=	OC-12/STM-4 pluggable long-reach (40 km) transceiver module, 1310-nm wavelength, LC connector
SFP-OC12-LR2=	OC-12/STM-4 pluggable long-reach (80 km) transceiver module, 1550-nm wavelength, LC connector
SFP-OC48-SR=	OC-48c/STM-16 pluggable short-reach (2 km) transceiver module, 1310-nm wavelength, LC connector
SFP-OC48-IR1=	OC-48c/STM-16 pluggable intermediate-reach (15 km) transceiver module, 1310-nm wavelength, LC connector
SFP-OC48-LR2=	OC-48c/STM-16 pluggable long-reach (80 km) transceiver module, 1550-nm wavelength, LC connector

Table 2 OC-3/OC-12/OC-48 SFP Transceiver Platform Support and Minimum Software Release Requirements

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco 10720 Internet Router	10720-RPR-SFP	SFP-OC48-SR	—	12.0(29)S
		SFP-OC48-IR1	—	12.0(29)S
		SFP-OC48-LR2	—	12.0(29)S
Cisco Shared Port Adapter (SPA)	SPA-2XOC3-POS	SFP-OC3-MM	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.	
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		
	SPA-4XOC3-POS	SFP-OC3-MM		
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		

Table 2 **OC-3/OC-12/OC-48 SFP Transceiver Platform Support and Minimum Software Release Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco Shared Port Adapter (SPA) (continued)	SPA-4XOC3-POS-V2	SFP-OC3-MM	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.	
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		
	SPA-8XOC3-POS	SFP-OC3-MM		
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		
	SPA-1XOC3-ATM-V2	SFP-OC3-MM		
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		
	SPA-2XOC3-ATM	SFP-OC3-MM		
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		
	SPA-3XOC3-ATM-V2	SFP-OC3-MM		
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		
	SPA-4XOC3-ATM	SFP-OC3-MM		
		SFP-OC3-SR		
		SFP-OC3-IR1		
		SFP-OC3-LR1		
		SFP-OC3-LR2		

Table 2 **OC-3/OC-12/OC-48 SFP Transceiver Platform Support and Minimum Software Release Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco Shared Port Adapter (SPA) (continued)	SPA-1XOC12-POS	SFP-OC12-MM	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.	
		SFP-OC12-SR		
		SFP-OC12-IR1		
		SFP-OC12-LR1		
		SFP-OC12-LR2		
	SPA-2XOC12-POS	SFP-OC12-MM		
		SFP-OC12-SR		
		SFP-OC12-IR1		
		SFP-OC12-LR1		
		SFP-OC12-LR2		
	SPA-4XOC12-POS	SFP-OC12-MM		
		SFP-OC12-SR		
		SFP-OC12-IR1		
		SFP-OC12-LR1		
		SFP-OC12-LR2		
	SPA-8XOC12-POS	SFP-OC12-MM		
		SFP-OC12-SR		
		SFP-OC12-IR1		
		SFP-OC12-LR1		
		SFP-OC12-LR2		
	SPA-1XOC12-ATM	SFP-OC12-MM		
		SFP-OC12-SR		
		SFP-OC12-IR1		
		SFP-OC12-LR1		
		SFP-OC12-LR2		
	SPA-1XOC12-ATM-V2	SFP-OC12-MM		
		SFP-OC12-SR		
		SFP-OC12-IR1		
		SFP-OC12-LR1		
		SFP-OC12-LR2		
	SPA-1XOC48-ATM	SFP-OC48-SR		
		SFP-OC48-IR1		
		SFP-OC48-LR2		

Table 2 OC-3/OC-12/OC-48 SFP Transceiver Platform Support and Minimum Software Release Requirements (continued)

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
Cisco Shared Port Adapter (SPA) (continued)	SPA-1XOC48-POS/RPR SPA-2XOC48-POS/RPR SPA-4XOC48-POS/RPR	SFP-OC48-SR SFP-OC48-IR1 SFP-OC48-LR2 SFP-OC48-SR SFP-OC48-IR1 SFP-OC48-LR2 SFP-OC48-SR SFP-OC48-IR1 SFP-OC48-LR2		
Port Adapters (PAs)	PA-POS-1OC3 PA-POS-2OC3	SFP-OC3-MM SFP-OC3-IR1 SFP-OC3-LR1 SFP-OC3-MM SFP-OC3-IR1 SFP-OC3-LR1	PA software support is determined by the platform on which the PA is installed. Refer to the PA release notes for the correct software release. PA software support is determined by the platform on which the PA is installed. Refer to the PA release notes for the correct software release.	
Cisco 3800 Series Integrated Services Router	NM-1A-OC3-POM	SFP-OC3-MM SFP-OC3-IR1 SFP-OC3-LR1	— — —	12.4(3) 12.4(3) 12.4(3)
Cisco 3900 Series Integrated Routers Series	NM-1A-OC3-POM	SFP-OC3-MM SFP-OC3-IR1 SFP-OC3-LR1	— — —	15.0(1)M 15.0(1)M 15.0(1)M
ASR 9000 Series Router	A9K-SIP-700 with SPA-1XCHSTM1/OC3 SPA-4XOC3-POS-V2 SPA-8XOC3-POS	SFP-OC3-MM SFP-OC3-SR SFP-OC3-IR1 SFP-OC3-LR1 SFP-OC3-LR2	—	XR 4.0.1
	A9K-SIP-700 with SPA-2XCHOC12/DS0	SFP-OC12-MM SFP-OC12-SR SFP-OC12-IR1 SFP-OC12-LR1 SFP-OC12-LR2	—	XR 3.9.0

Table 2 **OC-3/OC-12/OC-48 SFP Transceiver Platform Support and Minimum Software Release Requirements (continued)**

Platform	Switch or Module	Transceiver Model	Minimum Software Release Required	
			Catalyst Operating System	Cisco IOS Release
ASR 9000 Series Router (continued)	A9K-SIP-700 with SPA-8XOC12-POS	SFP-OC12-MM SFP-OC12-SR SFP-OC12-IR1 SFP-OC12-LR1 SFP-OC12-LR2	—	XR 4.0.0
	A9K-SIP-700 with SPA-2XOC48POS/RPR	SFP-OC48-SR SFP-OC48-IR1 SFP-OC48-LR2	—	XR 4.0.0

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