

Cisco SFP-10G-LR-X Compatibility Matrix Datasheet



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C9400

C9500

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ASR9000

ASR1000

ASR903

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ASR920

NCS4200

IE5000

C3850

C3650

NCS540

NCS560

C9600

C9300L

C9800

IE3300

NCS520

C8500

C9300X

ESS3000

C9300LM

IE9300

[C9300L](#)

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9300L-24T-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.1	IOS XE 16.12.1
C9300L-48T-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.1	IOS XE 16.12.1
C9300L-24P-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.1	IOS XE 16.12.1
C9300L-48P-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.1	IOS XE 16.12.1
C9300L-24UXG-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.2	IOS XE 16.12.2
C9300L-48UXG-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.2	IOS XE 16.12.2
C9300L-48PF-4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.2	IOS XE 16.12.2

IE5000

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
IE-5000-12S12P-10G	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 15.2(2)EB	IOS 15.2(2)EB

Network Device Notes for above line :

- When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.

NCS560

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
A900-IMA-8Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.6.25	IOS XR 6.6.25
A900-IMA-8CS1Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
A900-IMA-8Z-L	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
N560-IMA-8Q/4L	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.4.1	IOS XR 7.4.1

ASR9000

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
ASR-9000V-AC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.2	IOS XR 4.3.2
ASR-9000V-DC-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.2	IOS XR 4.3.2
ASR-9000V-DC-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.2	IOS XR 4.3.2
ASR-9000V-24-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.1.0	IOS XR 5.1.0
A9KV-V2-AC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.2	IOS XR 4.3.2
A9KV-V2-DC-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.2	IOS XR 4.3.2
A9KV-V2-DC-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.2	IOS XR 4.3.2
A9K-24X10GE-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.2.0	IOS XR 4.2.0
A9K-24X10GE-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.2.0	IOS XR 4.2.0
A9K-36X10GE-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.2.0	IOS XR 4.2.0
A9K-36X10GE-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.2.0	IOS XR 4.2.0
A9K-MPA-8X10GE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.1	IOS XR 4.3.1

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
Network Device Notes for above line : • On MOD80 and MOD160.													
A9K-MPA-8X10GE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.3.2	IOS XR 5.3.2
Network Device Notes for above line : • On MOD200 and MOD400.													
A9K-24X10GE-1G-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.3.2	IOS XR 64 Bit 6.3.2
A9K-24X10GE-1G-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
A9K-24X10GE-1G-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.3.2	IOS XR 64 Bit 6.3.2
A9K-24X10GE-1G-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
A9K-48X10GE-1G-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.3.2	IOS XR 64 Bit 6.3.2
A9K-48X10GE-1G-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
A9K-48X10GE-1G-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.3.2	IOS XR 64 Bit 6.3.2
A9K-48X10GE-1G-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
A9K-MPA-20X10GE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.3.2	IOS XR 5.3.2
Network Device Notes for above line : • On MOD400.													
A9K-MPA-20X10GE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.0.1	IOS XR 6.0.1
Network Device Notes for above line : • On MOD200.													
A9K-400G-DWDM-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.3.3	IOS XR 5.3.3
A99-48X10GE-1G-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.5.2	IOS XR 64 Bit 6.5.2
A99-48X10GE-1G-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.2	IOS XR 6.5.2
A99-48X10GE-1G-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.5.2	IOS XR 64 Bit 6.5.2
A99-48X10GE-1G-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.2	IOS XR 6.5.2
ASR-9901	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 6.4.1	IOS XR 64 Bit 6.4.1
A9K-4HG-FLEX-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A9K-4HG-FLEX-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A99-4HG-FLEX-TR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A99-4HG-FLEX-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
ASR-9902	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A9903-8HG-PEC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
ASR-9902-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A9K-4HG-FLEX-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A99-4HG-FLEX-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A9903-8HG-PEC-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 Bit 7.4.1	IOS XR 64 Bit 7.4.1
A99-48X10GE-1G-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 bit 6.5.2	IOS XR 64 bit 6.5.2
A99-48X10GE-1G-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.2	IOS XR 6.5.2
A9K-24X10GE-1G-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 bit 6.3.2	IOS XR 64 bit 6.3.2
A9K-24X10GE-1G-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
A9K-MPA-8X10GE-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 4.3.1	IOS XR 4.3.1
Network Device Notes for above line : • On MOD80 and MOD160.													

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
A9K-MPA-8X10GE-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.3.2	IOS XR 5.3.2
Network Device Notes for above line : • On MOD200 and MOD400.													
A9K-MPA-20X10GE-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.3.2	IOS XR 5.3.2
Network Device Notes for above line : • On MOD400.													
A9K-MPA-20X10GE-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.0.1	IOS XR 6.0.1
Network Device Notes for above line : • On MOD200.													
ASR-9901-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 bit 6.4.1	IOS XR 64 bit 6.4.1
A9K-48X10GE-1G-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 64 bit 6.3.2	IOS XR 64 bit 6.3.2
A9K-48X10GE-1G-FC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2

NCS540

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
N540-24Z8Q2C-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
N540-ACC-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
N540X-ACC-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.3.2	IOS XR 6.3.2
N540X-16Z4G8Q2C-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540X-16Z4G8Q2C-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540-28Z4C-SYS-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540-28Z4C-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540X-12Z16G-SYS-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540X-12Z16G-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540-12Z20G-SYS-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540-12Z20G-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.0.1	IOS XR 7.0.1
N540X-8Z16G-SYS-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
N540X-8Z16G-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
N540X-6Z18G-SYS-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
N540X-6Z18G-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
N540-FH-CSR-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.1	IOS XR 7.3.1
N540X-4Z14G2Q-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.4.1	IOS XR 7.4.1
N540X-4Z14G2Q-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.4.1	IOS XR 7.4.1
N540-24Q8L2DD-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.4.1	IOS XR 7.4.1
N540-FH-AGG-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.3.2	IOS XR 7.3.2
N540-6Z18G-SYS-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.8.1	IOS XR 7.8.1
N540-6Z18G-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.8.1	IOS XR 7.8.1
N540-6Z14S-SYS-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.5.2	IOS XR 7.5.2
N540X-16Z8Q2C-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.5.2	IOS XR 7.5.2

CRS

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
40x10GE-WLO	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.1.1	IOS XR 5.1.1

NCS520

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
N520-4G4Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.8.1	IOS XE 16.8.1
N520-X-4G4Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.8.1	IOS XE 16.8.1
N520-20G4Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.8.1	IOS XE 16.8.1
N520-X-20G4Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.8.1	IOS XE 16.8.1

C3650

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
WS-C3650-24PD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-24PDM	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-48PD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-48PQ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-48TQ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-8X24PD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-8X24UQ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-12X48UQ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-12X48UR	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1
WS-C3650-48FQM	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 16.10.1	IOS 16.10.1

IE3300

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
IE-3300-8T2X-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	

Network Device Notes for above line :

- When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.

IE-3300-8T2X-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
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Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
Network Device Notes for above line : • When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-3300-8U2X-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-3300-8U2X-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													

C8500

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C8500-12X4QC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.3.2	IOS XE 17.3.2
C8500-12X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.3.2	IOS XE 17.3.2
C8500L-8S4X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.4.1	IOS XE 17.4.1

C3850

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
WS-C3850-48XS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
WS-C3850-12XS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
WS-C3850-24XS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
C3850-NM-2-10G	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
Network Device Notes for above line : • Uplink module for C9300- 24T/48T/24P/48P/24U/48U/24UX/48UXM/48UN with minimum software of IOS XE 16.6.1.													
C3850-NM-4-10G	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
Network Device Notes for above line : • Uplink module for C9300- 24T/48T/24P/48P/24U/48U/24UX/48UXM/48UN with minimum software of IOS XE 16.6.1.													
C3850-NM-8-10G	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
Network Device Notes for above line : • Uplink module for C9300- 24T/48T/24P/48P/24U/48U/24UX/48UXM/48UN with minimum software of IOS XE 16.6.1.													

ASR1000

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
ASR1001-X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.12.0a	
ASR1002-HX	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.2S	IOS XE 16.2S
Network Device Notes for above line : • ASR 1000 platform with SPA cards: Software support on the ASR 1000 modular platforms is determined by the platform on which the SPA is installed. Refer to the SPA release notes for the correct software release.													
ASR1001-HX	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.3.1	IOS XE 16.3.1
Network Device Notes for above line : • ASR 1000 platform with SPA cards: Software support on the ASR 1000 modular platforms is determined by the platform on which the SPA is installed. Refer to the SPA release notes for the correct software release.													
EPA-10X10GE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.3.1	IOS XE 16.3.1

IE9300

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
IE-9320-22S2C4X-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-9320-22S2C4X-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-9320-24T4X-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-9320-24T4X-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-9320-24P4X-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
IE-9320-24P4X-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-9320-16P8U4X-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													
IE-9320-16P8U4X-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
Network Device Notes for above line : • 10G uplink SFP+ fiber ports support 1Gb/s and 10Gb/s data rates. When using nonindustrial rated transceivers, the hardened platform operating temperature range is de-rated. Please refer to the Cisco IE Datasheet or Hardware Installation Guide to calculate switch operating temperature ranges when nonindustrial SFPs are deployed.													

C9400

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9400-LC-24XY	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.12.1	IOS XE 17.12.1
C9400-LC-12QC	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.12.1	IOS XE 17.12.1
Network Device Notes for above line : • For QSFP ports, QSA28 (CVR-QSFP28-SFP25G) required.													

C9300X

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9300X-12Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.5.1	IOS XE 17.5.1
C9300X-24Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.5.1	IOS XE 17.5.1
C9300X-NM-8Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.5.1	IOS XE 17.5.1

C9500

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9500-24Y4C	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.11.1	IOS XE 16.11.1
Network Device Notes for above line : • SFP Ports 1-24; QSFP Ports 25-28: QSA (CVR-QSFP-SFP10G) required.													

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9500-48Y4C	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.11.1	IOS XE 16.11.1
Network Device Notes for above line : • SFP Ports 1-48; QSFP Ports 49-52: QSA (CVR-QSFP-SFP10G) required.													
C9500-40X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
C9500-NM-8X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
C9500-16X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
C9500X-28C8D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.7.1	IOS XE 17.7.1
Network Device Notes for above line : • For QSFP28 and QSFP-DD ports, QSA (CVR-QSFP-SFP10G) is required													
C9500X-60L4D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.10.1	IOS XE 17.10.1
Network Device Notes for above line : • For QSFP28 and QSFP-DD ports, QSA (CVR-QSFP-SFP10G) is required													

C9300

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9300-NM-2Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1
Network Device Notes for above line : • Uplink module for C9300- 24T/48T/24P/48P/24U/48U/24UX/48UXM/48UN													
C9300-NM-8X	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.10.1	IOS XE 16.10.1

NCS4200

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
NCS4200-1T8LR-PS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.13.0S	
NCS4201-SA	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.14	IOS XE 3.14
NCS 4201-SA	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.14	
NCS4200-8T-PS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.16.1S	
NCS4202-SA	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13

ESS3000

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
ESS-3300-NCP-E	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	
ESS-3300-NCP-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see datasheet and release notes for minimum software release information .	

NCS6000

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
NCS-6008	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.0.0	IOS XR 5.0.0
NC6-60X10GE-L-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.0.1	IOS XR 5.0.1
NC6-60X10GE-M-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 5.0.1	IOS XR 5.0.1

C9800

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9800-40-K9	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see release notes for minimum software release information .	
C9800-L-F-K9	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see release notes for minimum software release information .	
C9800-80-K9	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see release notes for minimum software release information .	
C9800-10X10GE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	Please see release notes for minimum software release information .	

C9600

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9600-LC-48YL	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.12.1	IOS XE 16.12.1
Network Device Notes for above line : • When in use with C9600-SUP-1.													
C9600-LC-48YL	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.7.1	IOS XE 17.7.1
Network Device Notes for above line : • When in use with C9600X-SUP-2.													
C9600-LC-40YL4CD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.7.1	IOS XE 17.7.1
Network Device Notes for above line : • When in use with C9600X-SUP-2.													
C9600-LC-40YL4CD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.8.1	IOS XE 17.8.1
Network Device Notes for above line : • When in use with C9600-SUP-1.													
C9600X-LC-56YL4C	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.13.1	IOS XE 17.13.1
Network Device Notes for above line : • When in use with C9600X-SUP-2.													

C9300LM

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
C9300LM-24U-4Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.9.1	IOS XE 17.9.1
C9300LM-48U-4Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.9.1	IOS XE 17.9.1
C9300LM-48UX-4Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.9.1	IOS XE 17.9.1
C9300LM-48T-4Y	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 17.9.1	IOS XE 17.9.1

ASR920

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
ASR-920-10SZ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13
ASR-920-12CZ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13
ASR-920-12SZ-IM	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13
ASR-920-24SZ-M	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.14	IOS XE 3.14
ASR-920-24SZ-IM	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.14	IOS XE 3.14
ASR-920-4SZ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13
ASR-920-24TZ-M	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.14	IOS XE 3.14
ASR-920-12SZ	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.9.1	IOS XE 16.9.1
ASR-920-20SZ-M	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.11.1	IOS XE 16.11.1
ASR-920-10SZ-PD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13
ASR-920-8S4Z-PD	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.13	IOS XE 3.13

ASR901

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
A901-6CZ-F-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 15.2(2)SN H1	IOS 15.2(2)S NH1
Network Device Notes for above line : • SFP+ ports													
A901-6-CZ-FT-D	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 15.2(2)SN H1	IOS 15.2(2)S NH1
Network Device Notes for above line : • SFP+ ports													
A901-6CZ-F-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 15.2(2)SN H1	IOS 15.2(2)S NH1
Network Device Notes for above line : • SFP+ ports													
A901-6-CZ-FT-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 15.2(2)SN H1	IOS 15.2(2)S NH1
Network Device Notes for above line : • SFP+ ports													

UCSB

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
UCS-FI-M-6324	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	UCS Manager v3.1(1e)	UCS Manager v3.1(1e)

NCS5500

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
NCS-5501	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.1.1	IOS XR 6.1.1
NCS-5501-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.1.1	IOS XR 6.1.1
NC55-MOD-A-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.1	IOS XR 6.5.1
NCS-55A2-MOD-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.1	IOS XR 6.5.1
NC55-MPA-12T-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.1	IOS XR 6.5.1
NC55-MOD-A-SE-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.6.1	IOS XR 6.6.1
NCS-55A2-MOD-HD-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.1	IOS XR 6.5.1
NCS-55A2-MOD-SE-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.6.1	IOS XR 6.6.1
NCS-55A2-MOD-HX-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.5.1	IOS XR 6.5.1
NCS-55A2-MOD-SE-H-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.6.1	IOS XR 6.6.1
NC55-32T16Q4H-A	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.2.2	IOS XR 7.2.2
NC57-36H-SE	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.8.1	IOS XR 7.8.1

Network Device Notes for above line :

• QSFP Ports, QSA (CVR-QSFP-SFP10G) required

NCS-57C3-MOD-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.4.1	IOS XR 7.4.1
NCS-57C3-MOD-SE-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.4.1	IOS XR 7.4.1
NC57-MOD-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.6.1	IOS XR 7.6.1
NCS-57C1-48Q6-SYS	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.5.2	IOS XR 7.5.2
NC57-MPA-12L-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.6.1	IOS XR 7.6.1
NC55-OIP-02	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.7.1	IOS XR 7.7.1

Network Device Notes for above line :

• Supported on NCS-57C3 and NCS-55A2

NC57-48Q2D-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.10.1	IOS XR 7.10.1
NC57-48Q2D-SE-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.10.1	IOS XR 7.10.1
NCS-57C1-48Q6D-S	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 7.5.2	IOS XR 7.5.2

NCS5000

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
NCS-5001	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.0.0	
NCS-5002	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XR 6.0.0	

ASR903

Network Device Product ID	Transceiver Product ID	Transceiver Business Unit	Data Rate	Form Factor	Reach	Cable Type	Media	Connector Type	Transceiver Type	Case Temp	DOM Capable	Min Software Support	DOM Support
A900-IMA8S1Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.13.0S	
A900-IMA8T1Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.13.0S	
A900-IMA2Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.13.0S	
Network Device Notes for above line : • For ASR903/ASR907/NCS4200													
A900-IMA2Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.14.0S	
Network Device Notes for above line : • For ASR920/NCS4201/NCS4202													
A900-IMA8Z	SFP-10G-LR-X	TMG	10 Gbps	SFP+	10km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS 3.16.1S	