



Cisco Optics-to-Device Compatibility Matrix Results

Network Device Product Family

ISR4000

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
4451-X	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4451-X	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—

Network Device Notes for above line :

• For GLC-GE-100FX, only version 2 (V02) and above will be supported.

4451-X	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4451-X	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4451-X	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4451-X	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4451-X	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4451-X	SFP-10G-SR	TMG	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1

Transceiver Notes for above line :

• FDDI: 26m; OM1: 33m; OM2: 82m; OM3: 300m; OM4/OM5: 400m

4451-X	SFP-10G-LRM	TMG	10 Gbps	SFP+	220m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
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Transceiver Notes for above line :

• SFP-10G-LRM can be used on SMF with a maximum reach of 300m

4451-X	SFP-10G-LR	TMG	10 Gbps	SFP+	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
4451-X	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.11	—
4451-X	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
4451-X	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4451-X	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4451-X	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4451-X	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4451-X	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4451-X	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4451-X	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
4451-X	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13	—
4451-X	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.1	IOS XE 3.1

Transceiver Notes for above line :

• FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m

4451-X	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.1	IOS XE 3.1
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Transceiver Notes for above line :

• GLC-LH-SMD can be used on MMF with a maximum reach of 550m

• LC mode-conditioning cable required for MMF applications

4451-X	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4451-X	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4451-X	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4431	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 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
4431	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4431	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4431	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4431	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4431	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4431	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4431	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.11	—
4431	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
4431	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4431	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4431	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4431	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4431	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4431	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4431	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
4431	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13	—
4431	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.1	IOS XE 3.1

Transceiver Notes for above line :

- FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m

4431	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.1	IOS XE 3.1
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Transceiver Notes for above line :

- GLC-LH-SMD can be used on MMF with a maximum reach of 550m
- LC mode-conditioning cable required for MMF applications

4431	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4431	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4431	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4351	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4351	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4351	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4351	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4351	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4351	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4351	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4351	SFP-10G-SR	TMG	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1

Transceiver Notes for above line :

- FDDI: 26m; OM1: 33m; OM2: 82m; OM3: 300m; OM4/OM5: 400m

4351	SFP-10G-LRM	TMG	10 Gbps	SFP+	220m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
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Transceiver Notes for above line :

- SFP-10G-LRM can be used on SMF with a maximum reach of 300m

4351	SFP-10G-LR	TMG	10 Gbps	SFP+	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
4351	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.11	—
4351	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
4351	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4351	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4351	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4351	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4351	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1

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
4351	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4351	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
4351	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13	—
4351	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
4351	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
4351	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4351	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4351	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4331	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4331	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4331	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4331	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4331	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4331	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4331	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4331	SFP-10G-SR	TMG	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
Transceiver Notes for above line : • FDDI: 26m; OM1: 33m; OM2: 82m; OM3: 300m; OM4/OM5: 400m													
4331	SFP-10G-LRM	TMG	10 Gbps	SFP+	220m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
Transceiver Notes for above line : • SFP-10G-LRM can be used on SMF with a maximum reach of 300m													
4331	SFP-10G-LR	TMG	10 Gbps	SFP+	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
4331	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.11	—
4331	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
4331	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4331	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4331	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4331	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4331	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4331	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4331	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
4331	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13	—
4331	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
4331	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
4331	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4331	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4331	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4321	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4321	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 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
4321	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4321	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4321	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4321	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4321	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4321	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.11	—
4321	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
4321	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4321	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4321	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4321	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4321	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4321	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4321	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
4321	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13	—
4321	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15

Transceiver Notes for above line :

- FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m

4321	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
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Transceiver Notes for above line :

- GLC-LH-SMD can be used on MMF with a maximum reach of 550m
- LC mode-conditioning cable required for MMF applications

4321	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4321	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4321	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4221	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 16.4.1	—
4221	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 16.4.1	—
4221	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 16.4.1	—
4221	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 16.4.1	—
4221	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 16.4.1	—
4221	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 16.4.1	—
4221	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 16.4.1	—
4221	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 16.4.1	—
4221	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 16.4.1	—
4221	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 16.4.1	—
4221	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1

Transceiver Notes for above line :

- FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m

4221	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
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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
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
4221	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4221	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 16.4.1	IOS XE 16.4.1
4461	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4461	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
Network Device Notes for above line : • For GLC-GE-100FX, only version 2 (V02) and above will be supported.													
4461	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4461	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.1	—
4461	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.1	—
4461	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4461	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.11	—
4461	SFP-10G-SR	TMG	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
Transceiver Notes for above line : • FDDI: 26m; OM1: 33m; OM2: 82m; OM3: 300m; OM4/OM5: 400m													
4461	SFP-10G-LRM	TMG	10 Gbps	SFP+	220m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
Transceiver Notes for above line : • SFP-10G-LRM can be used on SMF with a maximum reach of 300m													
4461	SFP-10G-LR	TMG	10 Gbps	SFP+	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
4461	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.11	—
4461	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
4461	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4461	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4461	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4461	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4461	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4461	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4461	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
4461	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13	—
4461	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.1	IOS XE 3.1
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
4461	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.1	IOS XE 3.1
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
4461	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
4461	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
4461	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.1	IOS XE 3.1
NIM-1GE-CU-SFP	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—

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
NIM-1GE-CU-SFP	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 16.4.1	—
NIM-1GE-CU-SFP	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
NIM-1GE-CU-SFP	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 16.4.1	—
NIM-1GE-CU-SFP	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-1GE-CU-SFP	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-1GE-CU-SFP	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-1GE-CU-SFP	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-1GE-CU-SFP	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-1GE-CU-SFP	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-1GE-CU-SFP	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
NIM-1GE-CU-SFP	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
NIM-1GE-CU-SFP	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.15	—
NIM-1GE-CU-SFP	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
NIM-1GE-CU-SFP	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
NIM-1GE-CU-SFP	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
NIM-1GE-CU-SFP	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
NIM-1GE-CU-SFP	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-1GE-CU-SFP	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 16.4.1	IOS XE 16.4.1
NIM-1GE-CU-SFP	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-1GE-CU-SFP	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-2GE-CU-SFP	GLC-FE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-GE-100FX	TMG	100 Mbps	SFP	2km	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-FE-100LX	TMG	100 Mbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-FE-100EX	TMG	100 Mbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-FE-100ZX	TMG	100 Mbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-FE-100BX-D	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-FE-100BX-U	TMG	100 Mbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
NIM-2GE-CU-SFP	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-2GE-CU-SFP	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-2GE-CU-SFP	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-2GE-CU-SFP	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-2GE-CU-SFP	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-2GE-CU-SFP	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1

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
NIM-2GE-CU-SFP	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
NIM-2GE-CU-SFP	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.15	—
NIM-2GE-CU-SFP	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
NIM-2GE-CU-SFP	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
NIM-2GE-CU-SFP	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
NIM-2GE-CU-SFP	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
NIM-2GE-CU-SFP	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
SM-X-6X1G	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.13.1	—
SM-X-6X1G	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
SM-X-6X1G	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
SM-X-6X1G	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
SM-X-6X1G	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-6X1G	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-6X1G	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-6X1G	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-6X1G	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
SM-X-6X1G	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.13.1	—
SM-X-6X1G	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
SM-X-6X1G	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
SM-X-6X1G	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-6X1G	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
SM-X-6X1G	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
SM-X-4X1G-1X10G	SFP-10G-SR	TMG	10 Gbps	SFP+	400m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
Transceiver Notes for above line : • FDDI: 26m; OM1: 33m; OM2: 82m; OM3: 300m; OM4/OM5: 400m													
SM-X-4X1G-1X10G	SFP-10G-LRM	TMG	10 Gbps	SFP+	220m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
Transceiver Notes for above line : • SFP-10G-LRM can be used on SMF with a maximum reach of 300m													
SM-X-4X1G-1X10G	SFP-10G-LR	TMG	10 Gbps	SFP+	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.13.1	IOS XE 3.13.1
SM-X-4X1G-1X10G	GLC-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	0 to 70C	N	IOS XE 3.15	—
SM-X-4X1G-1X10G	GLC-TE	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.16	—
SM-X-4X1G-1X10G	GLC-BX-D	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
SM-X-4X1G-1X10G	GLC-BX-U	TMG	1 Gbps	SFP	10Km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
SM-X-4X1G-1X10G	GLC-BX40-D-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-4X1G-1X10G	GLC-BX40-U-I	TMG	1 Gbps	SFP	40km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-4X1G-1X10G	GLC-BX80-D-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-4X1G-1X10G	GLC-BX80-U-I	TMG	1 Gbps	SFP	80km	Single-strand Fiber	SMF	LC (PC or UPC)	Optic	-40 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-4X1G-1X10G	GLC-EX-SMD	TMG	1 Gbps	SFP	40km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15

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
SM-X-4X1G-1X10G	SFP-GE-T	TMG	10/100/1000 Mbps	SFP	100m	Cat5e/6A	Copper	RJ-45	Copper	-5 to 85C	N	IOS XE 3.15	—
SM-X-4X1G-1X10G	GLC-SX-MMD	TMG	1 Gbps	SFP	1000m	Duplex Fiber	MMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • FDDI: 220m; OM1: 275m; OM2: 550m; OM3, OM4/OM5: 1000m													
SM-X-4X1G-1X10G	GLC-LH-SMD	TMG	1 Gbps	SFP	10Km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.15	IOS XE 3.15
Transceiver Notes for above line : • GLC-LH-SMD can be used on MMF with a maximum reach of 550m • LC mode-conditioning cable required for MMF applications													
SM-X-4X1G-1X10G	GLC-ZX-SMD	TMG	1 Gbps	SFP	70km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	-5 to 85C	Y	IOS XE 3.16.1	IOS XE 3.16.1
SM-X-4X1G-1X10G	CWDM-SFP-XXXX	TMG	1 Gbps	SFP	100km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15
SM-X-4X1G-1X10G	DWDM-SFP-XXXX	TMG	1 Gbps	SFP	80km	Duplex Fiber	SMF	LC (PC or UPC)	Optic	0 to 70C	Y	IOS XE 3.15	IOS XE 3.15