

Small Form Factor Pluggables CWDM Wavelengths

- ▶ Course Wavelength Division Multiplexing (CWDM) ITU Grid Compliant Wavelengths
- ▶ Hot-Pluggable SFP Footprint LC Optical Transceiver
- ▶ Digital Diagnostic Function
- ▶ Class 1 Laser International Safety Standard IEC-60825 Compliant
- ▶ Compatible with Small Form Factor Pluggable Multi-Sourcing Agreement (MSA)

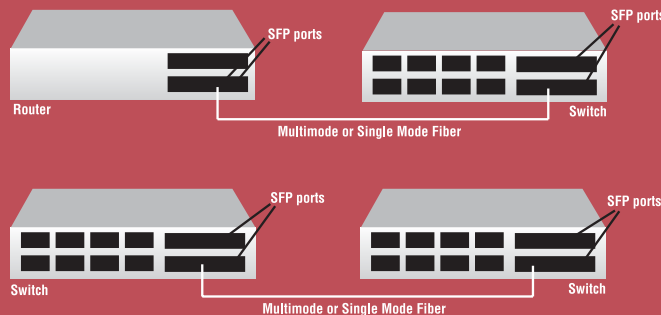
TN-SFP-xxx-Cxx



Note: Per Cisco Systems's literature, the Cisco switches with SFP slots do not accept modules other than Cisco's own SFPs. The Cisco switch identifies the manufacturer ID along with the part number and blocks operations to this port for non-Cisco interfaces. Other major SFP switch manufacturers do not indicate in their literature that such restrictions are imposed.

Transition Networks's SFP units fully comply with Multi-Sourcing Agreement (MSA). This compliance allows Transition Networks SFP modules to be used on other MSA-compliant SFP platforms without any problems.

Fiber Connections with SFPs



Applications

- ▶ Gigabit Ethernet Switches and Routers
- ▶ Fibre Channel Switch Infrastructure
- ▶ XDSL Applications
- ▶ Metro Edge Switching

Additional Features

TN-SFP-LX8-Cxx SFP modules:

- ▶ Compliant with IEEE 802.3z Gigabit Ethernet
- ▶ Compliant with Fiber Channel 1X SM-LC-L FC-PI

TN-SFP-OC3S8-Cxx SFP modules:

- ▶ Compliant with 100BASE-FX
- ▶ Compliant with Intermediate-Reach SONET OC-3 / SDH STM-1 (S-1.1)

TN-SFP-OC12S-Cxx SFP modules:

- ▶ Compliant with Intermediate-Reach SONET OC-12 / SDH STM-4 (S-4.1)

TN-SFP-OC48S-Cxx SFP modules:

- ▶ Compliant with IEEE 802.3z Gigabit Ethernet
- ▶ Compliant with Fiber Channel 1X/2X SM-LC-L FC-PI
- ▶ Compliant with Short-Reach SONET OC-48 / SDH STM-16 (S-16.1)

Can be used on Optical Line Converter xFMFF4040-100

Specifications

Standards IEEE 802.3 2003; ANSI X3.297-1997
(see additional standards by part number to the left)

Fiber Optic Connector Specs

SKU	Min TX PWR (dBm)	Max TX PWR (dBm)	RX Sens (dBm)	Max In PWR (dBm)	Link Budget (dB)
TN-SFP-OC3S8-Cxx	-5.0	0.0	-34.0	-8.0	29.0
TN-SFP-OC12S-Cxx	0.0	5.0	-29.0	-8.0	29.0
TN-SFP-LX8-Cxx	0.0	5.0	-24.0	-3.0	24.0
TN-SFP-OC48S-Cxx	-2.0	3.0	-20.0	0.0	18.0

Data Rate (Mb/s)

SKU	Min	Typical	Max
TN-SFP-OC3S8-Cxx	--	155	200
TN-SFP-OC12S-Cxx	--	622	--
TN-SFP-LX8-Cxx	100	1250	--
TN-SFP-OC48S-Cxx	622	2488	2670

Output Wavelength $-5.5\text{nm} < \lambda_c < +7.5\text{nm}$

Dimensions
Width: 0.52" [13 mm]
Depth: 2.18" [55 mm]
Height: 0.33" [8 mm]

Power 3.3V

Power Consumption 0.66 watts

Environment 0°C – 70°C

Compliance IEC-60825; FDA 21; CFR 1040.10 and 1040.11

Warranty Lifetime

Ordering Info

TN-SFP-OC3S8-Cxx

SFP 100BASE-FX/OC-3 (LC) SM
[80 km/49.7 mi.] Link Budget: 29.0 dB

TN-SFP-OC12S-Cxx

OC-12/STM-4 (LC) SM
[80 km/49.7 mi.] Link Budget: 29.0 dB

TN-SFP-LX8-Cxx

1000BASE-LX/Fibre Channel 1x (LC) SM
[80 km/49.7 mi.] Link Budget: 24.0 dB

TN-SFP-OC48S-Cxx

OC-48/STM-16/Fibre Channel 2x1x/1000BASE-LX (LC) SM
[40 km/24.9 mi.] Link Budget: 18.0 dB

xx = center wavelength (λ_c)

27 = 1270nm	45 = 1450nm
29 = 1290nm	47 = 1470nm
31 = 1310nm	49 = 1490nm
33 = 1330nm	51 = 1510nm
35 = 1350nm	53 = 1530nm
37 = 1370nm	55 = 1550nm
39 = 1390nm	57 = 1570nm
41 = 1410nm	59 = 1590nm
43 = 1430nm	61 = 1610nm



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