

MSA Compatible CWDM SFP/XFP Modules



Applications include: 10G Ethernet Switches and Routers, Gigabit Ethernet Switches and Routers, Fiber Channel Switch Infrastructure, xDSL Applications, and Metro Edge Switching.

Features

- Coarse Wavelength Division Multiplexing (CWDM) ITU Grid Compliant Wavelengths
- Hot-Pluggable SFP Footprint Duplex LC Optical Transceiver
- Digital Diagnostic Function (DMI)
- Class 1 Laser International Safety Standard IEC-60825 Compliant
- Compatible with SFP Multi-Sourcing Agreement (MSA)
- Compliant with IEEE 802.3z Gigabit Ethernet (TN-SFP-LX8-Cxx/TN-SFP-LX8-CxxT/TN-SFP-LX16-Cxx SFP Modules Only)
- Compliant with Fiber Channel 1X SM-LC-L FC-PI (Can be used on Optical Line Converter xFMFF4040-100) (TN-SFP-LX8-Cxx/TN-SFP-LX8-CxxT/TN-SFP-LX16-Cxx SFP Modules Only)
- Compliant with 100Base-FX (TN-SFP-OC3S8-Cxx SFP Module Only)
- Compliant with Intermediate-Reach SONET OC-3/SDH STM-1 (S-1.1) (TN-SFP-OC3S8-Cxx SFP Module Only)
- Compliant with IEEE 802.3z Gigabit Ethernet (TN-SFP-OC48S-Cxx SFP Module Only)
- Compliant with Fiber Channel 1X SM-LC-L FC-PI (TN-SFP-OC48S-Cxx SFP Module Only)
- Compliant with Short-Reach SONET OC-48/SDH STM-16 (S-16.1) (TN-SFP-OC48S-Cxx SFP Module Only)

Specifications

Standards	IEEE 802.3 2003 ANSI X3.297-1997 (see additional standards by part number to the left)
Output Wavelength	-5.5nm < λ_c < +7.5nm
Typical Data Rate	155Mbps (TN-SFP-OC3S8-Cxx) 1250Mbps (TN-SFP-LX8-Cxx, TN-SFP-LX8-CxxT) 2488Mbps (TN-SFP-OC48S-Cxx)
Minimum Data Rate	100Mbps (TN-SFP-LX8-Cxx, TN-SFP-LX8-CxxT) 622Mbps (TN-SFP-OC48S-Cxx)
Maximum Data Rate	200Mbps (TN-SFP-OC3S8-Cxx) 2670Mbps (TN-SFP-OC48S-Cxx)
Dimensions	Width: 0.52" [13 mm] Depth: 2.18" [55 mm] Height: 0.33" [8 mm]
Power Consumption	0.66 Watts
Power Input	3.3V
Environment	Operating: 0°C to 70°C (TN-SFP-OC3S8-Cxx, TN-SFP-LX8-Cxx, TN-SFP-LX16-Cxx, TN-SFP-OC48S-Cxx, TN-XFP-LRx-Cxx) Operating: -40°C to +85°C (TN-SFP-LX8-CxxT)
Compliance	IEC-60825, FDA 21, CFR 1040.10 and 1040.11
Warranty	Lifetime

Transition Networks' 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.

Ordering Information

TN-SFP-OC3S8-Cxx

SFP 100Base-FX/OC-3 single mode (LC) with DMI [80 km/49.7 mi.] Link Budget: 29.0 dB

TN-SFP-LX8-Cxx

1000Base-LX/Fiber Channel 1x single mode (LC) with DMI [80 km/49.7 mi.] Link Budget: 24.0 dB

TN-SFP-LX16-Cxx

1000Base-LX/Fiber Channel 1x single mode (LC) with DMI [160 km/99.4 mi.] Link Budget: 37.0 dB

TN-SFP-LX20-Cxx

1000Base-LX/Fiber Channel 1x single mode (LC) with DMI [200 km/124.2 mi.] Link Budget: 37.0 dB

TN-SFP-OC48S-Cxx

OC-48/STM-16/Fiber Channel 2x/1x/1000Base-LX single mode (LC) with DMI [40 km/24.9 mi.] Link Budget: 18.0 dB

TN-XFP-LR1-Cxx

XFP 10GBase-LR/10G Fiber Channel single mode (LC) with DMI [10 km/6.2 mi.] Link Budget: 11.4 dB

*TN-XFP-LR4-Cxx

XFP 10GBase-ER/10G Fiber Channel single mode (LC) with DMI [40 km/24.9 mi.] Link Budget: 15.0 dB

**TN-XFP-LR7-Cxx

XFP 10GBase-ZR single mode (LC) with DMI [70 km/43.6 mi.] Link Budget: 23.0 dB

Extended Operating Temperature
(-40°C to +85°C)

**TN-SFP-LX8-CxxT

1000Base-LX/Fiber Channel 1x single mode (LC) with DMI [80 km/49.7 mi.] Link Budget: 24.0 dB

*Note: TN-XFP-LR4-Cxx:

xx= 27, 29, 31, 33, 35, 37, 39, 41, 47, 49, 51, 53, 55, 57, 59, 61

**Note: TN-XFP-LR7-Cxx & TN-SFP-LX8-CxxT:
xx= 47, 49, 51, 53, 55, 57, 59, 61

xx = center wavelength (nm)

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