



Cisco Compatible 10G SFP+

TN-SFP-10G-xR

10GBase SFP+ Modules: 10GBase SFP+ Cisco Compatible



Features

- ▶ SFP+ Optical Transceiver with LC connector
- ▶ 10G small Form-Factor Pluggable (SFP+) MSA compatible
- ▶ Compliant with IEEE 802.3ae 10GBASE-SR/LR/LW
- ▶ SFF-8472 Digital Diagnostic Function (DDI)
- ▶ Maximum Link Length of 80KM
- ▶ Single +3.3 V Power Supply
- ▶ RoHS Compliant (all models)
- ▶ Class 1 Laser International Safety Standard IEC 60825 Compliant

* Note: The Transition Networks TN-SFP-10G-xx series 10G SFP+ transceiver modules are designed to install in any SFP+ port allowing for 10GBase-X interfaces to the network through the SFP+ connector. The TN-SFP-10G-xx transceivers are Cisco compatible* and are designed for bi-directional serial-optical data communication such as 10G Ethernet at speeds up to 10.3 Gbps.

*Transition Networks' SFP+ modules fully comply with the Multi-Sourcing Agreement (MSA). This compliance allows our SFP+ modules to be used in all other MSA compliant SFP+ platforms. In addition, TN SFP modules are also compatible with all Cisco SFP+ based routers and switches, as well as Cisco's IOS software. TN SFP+ modules ARE NOT Cisco OEM brand module

Applications

- ▶ 10G Ethernet Switches and Routers
- ▶ Metro Edge Switching

Specifications

Standards	IEEE802.3z, IEEE802.3
Output Wavelength	-5.5nm < λ_c < +7.5nm
Dimensions	Width: 0.52" [13 mm] Depth: 2.18" [55 mm] Height: 0.33" [8 mm]
Power	3.3V
Environment	0°C to 70°C operating -40°C to 85°C storage
Compliance	IEC-60825; FDA 21; CFR 1040.10 and 1040.11
Warranty	Lifetime

Ordering Information

*TN-SFP-10G-SR

10GBase-SR, SFP+
w/ Digital Diagnostics (DDI) 850nm (LC)
[300/82/33 m; 985/269/108 ft.]
Link Budget: 4.0 dB

TN-SFP-10G-LRM

10GBase-LRM, SFP+
w/ Digital Diagnostics (DDI) 1310nm (LC)
[220m; 722 ft.] Link Budget: 1.5 dB

TN-SFP-10G-LR

10GBase-LR, SFP+
w/ Digital Diagnostics (DDI) 1310nm (LC)
[10 km/6.2 mi.] Link Budget: 9.0 dB

TN-SFP-10G-ER

10GBase-ER, SFP+
w/ Digital Diagnostics (DDI) 1550nm (LC)
[40 km/24.9 mi.] Link Budget: 15.8 dB

TN-SFP-10G-ZR

10GBase-ZR, SFP+
w/ Digital Diagnostics (DDI) 1550nm (LC)
[80 km/49.7 mi.] Link Budget: 24.0 dB

TN-SFP-10G-U-10

10GBase-BX, SFP+ w/ Digital Diagnostics (DDI) 1270 TX/1330 RXnm (LC)
[10 km/6.2 mi.] Link Budget: 5.9 dB

TN-SFP-10G-D-10

10GBase-BX, SFP+ w/ Digital Diagnostics (DDI) 1330 TX/1270 RXnm (LC)
[10 km/6.2 mi.] Link Budget: 5.9 dB

TN-SFP-10G-U-20

10GBase-BX, SFP+ w/ Digital Diagnostics (DDI) 1270 TX/1330 RXnm (LC)
[20 km/12.4 mi.] Link Budget: 12.1 dB

TN-SFP-10G-D-20

10GBase-BX, SFP+ w/ Digital Diagnostics (DDI) 1330 TX/1270 RXnm (LC)
[20 km/12.4 mi.] Link Budget: 12.1 dB

TN-SFP-10G-U-40

10GBase-BX, SFP+ w/ Digital Diagnostics (DDI) 1270 TX/1330 RXnm (LC)
[40 km/24.9 mi.] Link Budget: 16.0 dB

TN-SFP-10G-D-40

10GBase-BX, SFP+ w/ Digital Diagnostics (DDI) 1330 TX/1270 RXnm (LC)
[40 km/24.9 mi.] Link Budget: 16.0 dB

*Distance up to 300m on 50/125 OM3 multi-mode fiber, up to 82 m for 50/125 um multi-mode fiber with model.

Bandwidth 500 MHz-km at 850nm, and up to 33 m for 62.5/125 um multi-mode fiber with model bandwidth 200 MHzkm at 850nm.