

# TN-SFP-10G-x-xx Series

## Cisco Compatible 10GBase SFP+ Modules

### 10GBase-X, SFP+ With DMI (LC)



TN-SFP-10G-D-80

TN-SFP-10G-U-80

Applications include: 10G Ethernet Switches and Routers and Metro Edge Switching.

## Features

- SFP+ Optical Transceiver with LC connector
- 10G Small Form-Factor Pluggable (SFP+) MSA Compliant
- Compliant with IEEE 802.3ae 10GBase-SR/LR/LW
- SFF-8472 Digital Diagnostic Function (DDI)
- Maximum Link Length of 100KM
- Single +3.3V Power Supply
- RoHS Compliant (all models)
- Class 1 Laser International Safety Standard IEC 60825 Compliant

## Specifications

Standards	IEEE 802.3z IEEE 802.3
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 Input	3.3V
Environment	Operating: 0°C to 70°C Storage: -40°C to 85°C
Compliance	IEC-60825, FDA 21, CFR 1040.10 and 1040.11
Warranty	Lifetime

Note: The Transition Networks TN-SFP-10G-x-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-x-xx transceivers are Cisco Compliant\* 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, Transition Networks SFP modules are also Compliant with all Cisco SFP+ based routers and switches, as well as Cisco's IOS software. Transition Networks SFP+ modules ARE NOT Cisco OEM brand module

## Ordering Information

### Simplex

#### TN-SFP-10G-U-10

10GBase-BX, SFP+ with DMI  
1270nm TX/1330nm RX single mode (LC)  
[10 km/6.2 mi.] Link Budget: 5.9 dB

#### TN-SFP-10G-D-10

10GBase-BX, SFP+ with DMI  
1330nm TX/1270nm RX single mode (LC)  
[10 km/6.2 mi.] Link Budget: 5.9 dB

#### TN-SFP-10G-U-20

10GBase-BX, SFP+ with DMI  
1270nm TX/1330nm RX single mode (LC)  
[20 km/12.4 mi.] Link Budget: 12.1 dB

#### TN-SFP-10G-D-20

10GBase-BX, SFP+ with DMI  
1330nm TX/1270nm RX single mode (LC)  
[20 km/12.4 mi.] Link Budget: 12.1 dB

#### TN-SFP-10G-U-40

10GBase-BX, SFP+ with DMI  
1270nm TX/1330nm RX single mode (LC)  
[40 km/24.9 mi.] Link Budget: 16.0 dB

#### TN-SFP-10G-D-40

10GBase-BX, SFP+ with DMI  
1330nm TX/1270nm RX single mode (LC)  
[40 km/24.9 mi.] Link Budget: 16.0 dB

#### TN-SFP-10G-U-60

10GBase-BX, SFP+ with DMI  
1270nm TX/1330nm RX single mode (LC)  
[60 km/37.3 mi.] Link Budget: 20.0 dB

#### TN-SFP-10G-D-60

10GBase-BX, SFP+ with DMI  
1330nm TX/1270nm RX single mode (LC)  
[60 km/37.3 mi.] Link Budget: 20.0 dB

#### TN-SFP-10G-U-80

10GBase-BX, SFP+ with DMI  
1490nm TX/1550nm RX single mode (LC)  
[80 km/49.7 mi.] Link Budget: 23.0 dB

#### TN-SFP-10G-D-80

10GBase-BX, SFP+ with DMI  
1550nm TX/1490nm RX single mode (LC)  
[80 km/49.7 mi.] Link Budget: 23.0 dB