

## TN-GLC-xxx



### ▶ Hot-Pluggable SFP Footprint LC Optical Transceiver

-both simplex and duplex

### ▶ Class 1 Laser International Safety Standard IEC-60825 Compliant

### ▶ Compatible with Small Form Factor Pluggable Multi-Sourcing Agreement (MSA)

The Transition Networks TN-GLC-xxx series small form factor pluggable (SFP) transceiver modules are designed to install in any SFP port allowing for 1000Base-T, 1000Base-SX or 1000Base-LX interfaces to the network through the SFP connector. The TN-GLC-xxx transceivers are Cisco compatible\* and are designed for bi-directional serial-optical data communication such as Gigabit Ethernet or fiber channel at speeds up to 1.25 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 modules.

## Applications

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

## Additional Features

### TN-GLC-xxx modules (except those below):

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

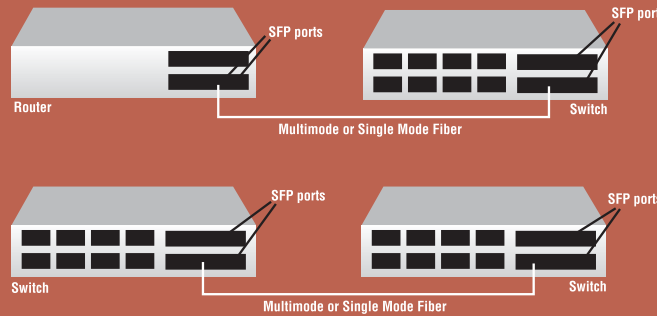
### TN-GLC-FE-xxx & TN-GLC-GE-xxx modules:

- ▶ Compliant with IEEE 802.3 100BASE-FX
- ▶ Compliant with IEEE 802.3 ah 100BASE-BX
- ▶ Compliant with Intermediate-Reach SONET OC-3/SDH STM-1 (S-1.1)

Can be used on Optical Line Converter xFMFF4040-100

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## Fiber Connections with SFPs



## Specifications

Standards	IEEE 802.3 2003; ANSI X3.297-1997
Dimensions (fiber)	Width: 0.52 [13 mm] Depth: 2.18" [55 mm] Height: 0.33" [8 mm]
Dimensions (copper)	Width: 0.95 [24 mm] Depth: 2.8" [71 mm] Height: 0.54" [14 mm]
Power	3.3V
Power Consumption	0.66 watts (fiber) 1.0 watts (copper)
Environment	0°C – 70°C operating -40°C – 85°C storage
Compliance	IEC-60825; FDA 21; CFR 1040.10 and 1040.11
Warranty	Lifetime

Transition Networks, Inc.  
10900 Red Circle Drive  
Minnetonka, MN 55343 USA  
tel 952.941.7600  
or 800.526.9267  
fax 952.941.2322  
info@transition.com  
http://www.transition.com

## Ordering Info

- TN-GLC-T**  
1000BASE-T (RJ-45)  
100M/328ft.
- TN-GLC-SX-MM**  
1000BASE-SX 850nm MM (LC)  
[62.5/125µm: 220 m/722 ft.]  
Link Budget: 8.5 dB  
[50/125µm: 550 m/1804 ft.]  
Link Budget: 8.5 dB
- TN-GLC-SX-MM-2K**  
1000BASE-SX 1300nm (LC) Ext. MM  
[2 km/1.2 mi.] Link Budget: 10.0 dB
- TN-GLC-LH-SM**  
1000BASE-LX 1310nm (LC) SM  
[10 km/6.2 mi.] Link Budget: 10.5 dB
- TN-GLC-ZX-SM**  
1000BASE-LX 1550nm (LC) SM  
[80 km/49.7 mi.] Link Budget: 24.0 dB
- TN-GLC-BX-U**  
1000BASE-BX 1310nm TX/1490nm RX  
single fiber (LC) SM  
[10 km/6.2 mi.] Link Budget: 12.0 dB
- TN-GLC-BX-D**  
1000BASE-BX 1490nm TX/1310nm RX  
single fiber (LC) SM  
[10 km/6.2 mi.] Link Budget: 12.0 dB
- TN-GLC-BX-U-40**  
1000BASE-BX 1310nm TX/1490nm RX  
single fiber (LC) SM  
[40 km/24.9 mi.] Link Budget: 20.0 dB
- TN-GLC-BX-D-40**  
1000BASE-BX 1490nm TX/1310nm RX  
single fiber (LC) SM  
[40 km/24.9 mi.] Link Budget: 20.0 dB
- TN-GLC-BX-U-60**  
1000BASE-BX 1310nm TX/1490nm RX  
single fiber (LC) SM  
[60 km/37.3 mi.] Link Budget: 23.0 dB
- TN-GLC-BX-D-60**  
1000BASE-BX 1490nm TX/1310nm RX  
single fiber (LC) SM  
[60 km/37.3 mi.] Link Budget: 23.0 dB
- TN-GLC-FE-100BX-U**  
100BASE-BX 1310nm TX/1550nm RX  
single fiber (LC) SM  
[20 km/12.4 mi.] Link Budget: 18.0 dB
- TN-GLC-FE-100BX-D**  
100BASE-BX 1550nm TX/1310nm RX  
single fiber (LC) SM  
[20 km/12.4 mi.] Link Budget: 18.0 dB
- TN-GLC-FE-100FX**  
100BASE-FX 1300nm (LC) MM  
[2 km/1.2 mi.] Link Budget: 8.5 dB
- TN-GLC-FE-100LX**  
100BASE-FX 1310nm (LC) SM  
[20 km/12.4 mi.] Link Budget: 19.0 dB
- TN-GLC-GE-100FX\***  
100BASE-FX 1300nm (LC) MM  
[2 km/1.2 mi.] Link Budget: 8.5 dB

\* Provides 100BASE-FX interface when plugged into a Gigabit SFP slot on Cisco Catalyst 2970, 3560 & 3750 series switches.