

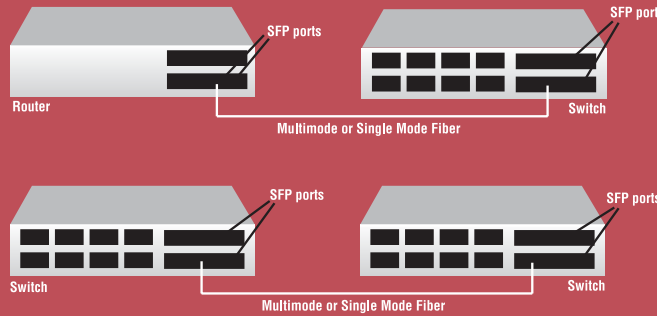
# GBIC Modules 1000BASE-LX or SX

## TN-GB-xM5x



Transition Networks's GBIC transceiver is a plug-in module and it is hot-swappable. It allows for seamless integration of fiber with copper LAN connections wherever GBIC interface slots are available. This device is economical, it saves time, offers flexibility and eliminates the necessity for replacing entire devices when the customers need to change or upgrade fiber connections.

### Fiber Connections with GBICs



**Notes:**  
Using Transition Networks GBIC modules will not void or interfere with the original equipment manufacturer's warranty or maintenance contracts.

Transition Networks GBICs are built to comply with IEEE 802.3z which is intended to provide Gigabit interconnectivity between different vendors.

Transition's GBIC modules are compatible with all major switch and router vendors.

### Features

- ▶ Laser Class 1 Product
- ▶ Compliant with 802.3z 1000BASE-SX; 1000BASE-LX
- ▶ Plug-and-Play module
- ▶ Hot-swappable
- ▶ TTL Logic Interface

### Specifications

Standards	IEEE 802.3z 1000BASE-SX; 1000BASE-LX					
Dimensions	<b>Width:</b> 1.2" [30 mm] <b>Depth:</b> 2.6" [65 mm] <b>Height:</b> 0.40" [10 mm]					
Fiber Optic Connector Specs						
	Min TX PWR (dBm)	Max TX PWR (dBm)	RX Sens (dBm)	Max In PWR (dBm)	Link Budget (dB)	
SKU						
TN-GB-MM5	-10.0	-4.0	-18.0	0.0	7.0	
TN-GB-SM5	-13.0	-3.0	-20.0	-3.0	7.0	
TN-GB-SM53	-5.0	0.0	-24.0	-3.0	19.0	
TN-GB-SM55	-5.0	0.0	-24.0	-3.0	19.0	
TN-GB-SM58	0.0	+5.0	-24.0	-3.0	19.0	
TN-GB-SM512	0.0	+5.0	-32.0	-9.0	32.0	
TN-GB-ESXx	-10.0	-3.0	-18.0	-3.0	8.0	
Power	TN-GB-xxx: 5V, no external power required MIL-GBIC-xxx: 3.3/5V, no external power required					
Power Consumption	0.8 watts					
Environment	0°C – 70°C					
Compliance	UL Registered, CSA, IEC 60825-1 and IEC 60825-2, CE Marked					
Warranty	Lifetime					

### Ordering Info

**TN-GB-MM5**  
1000BASE-SX 850nm MM (SC)  
[62.5/125µm: 220 m / 722 ft.]  
Link Budget: 8.5 dB  
[50/125µm: 550 m / 1804 ft.]  
Link Budget: 8.5 dB

**TN-GB-ESX5**  
1000BASE-SX 1300nm Ext. MM (SC)  
[50/125µm fiber only: up to 2km / 1.2mi.] Link Budget: 8.0 dB

**TN-GB-ESX6**  
1000BASE-SX 1300nm Ext. MM (SC)  
[62.5/125µm fiber only: up to 2km / 1.2mi.] Link Budget: 8.0 dB

**TN-GB-SM5**  
1000BASE-LX 1310nm SM (SC)  
[10 km/6.2 mi.] Link Budget: 11.0 dB

**TN-GB-SM53**  
1000BASE-LX 1310nm SM (SC)  
[30 km/18.6 mi.] Link Budget: 19.0 dB

**TN-GB-SM55**  
1000BASE-LX 1550nm SM (SC)  
[50 km/31.1 mi.] Link Budget: 19.0 dB

**TN-GB-SM58**  
1000BASE-LX 1550nm SM (SC)  
[80 km/49.7 mi.] Link Budget: 24.0 dB

**TN-GB-SM512**  
1000BASE-LX 1550nm SM (SC)  
[120 km/74.6 mi.] Link Budget: 32.0 dB

**GBIC Modules for use with MIL-SM808G(xx) Switch:**

**MIL-GBIC-SX**  
1000BASE-SX 850nm MM (SC)  
[62.5/125µm: 220 m / 722 ft.]  
Link Budget: 8.5 dB  
[50/125µm: 550 m / 1804 ft.]  
Link Budget: 8.5 dB

**MIL-GBIC-LX10**  
1000BASE-LX 1310nm SM (SC)  
[10 km/6.2 mi.] Link Budget: 11.0 dB