

## 1.25G GBIC-SX Transceiver

**MODEL: GBIC-SX**



### Product Overview

1.25Gbps 1310nm GBIC Optical Transceiver, 20km Reach ING-LH series GBIC transceiver is high performance, cost effective module supporting dual data-rate of 1.25Gbps/1.0625Gbps and from 550m transmission on 50/125  $\mu$ m MMF.

The transceiver consists of two sections: The transmitter section incorporates a VCSEL laser. And the receiver section consists of a PIN photodiode integrated with a trans-impedance preamplifier (TIA). All modules satisfy class I laser safety requirements.

The optical output can be disabled by a TTL logic high-level input of Tx Disable. Tx Fault is provided to indicate degradation of the laser. Loss of signal (LOS) output is provided to indicate the loss of an input optical signal of receiver.

The standard serial ID information Compatible with GBIC MSA describes the transceiver's capabilities, standard interfaces, manufacturer and other information. The host equipment can access this information via the two-wire serial CMOS EEPROM protocol. For further information, please refer to SFF-8053.

### Features

- Dual data-rate of 1.25Gbps/1.0625Gbps operation
- 1310nm VCSEL laser and PIN photo detector
- Duplex SC optical interface
- Standard serial ID information compatible with SFF-8053

550m transmission with 50/125  $\mu$ m MMF  
 275m transmission with 62.5/125  $\mu$ m MMF  
 +3.3V/5V single power supply  
 RoHS Compliant  
 Operating case temperature: 0 to +70°C

### Applications

Switch to Switch interface  
 Switched backplane applications  
 Router/Server interface  
 Other optical transmission systems

### Specifications

Form Factor GBIC  
 Distance 550m  
 Data Rate 1.25G  
 Low End Case Temperature (°C) 0°C  
 High End Case Temperature (°C) 70°C  
 Diagnostics Digital  
 Transmitter VCSEL  
 Receiver PIN  
 Wavelength (nm) 1310  
 Connector SC

### Information Order

Part No.	Data Rate	Wave length	Reach	TX	RX	Pout	s	Others
GBIC-SX-MM	1.25G	850nm	550M	VCSEL	550M	-10~-3dBm	<-18dBm	SC, 5V/3.3V;SMF;RoHS
GBIC-LH-SM	1.25G	1310nm	20KM	FP	550M	-9~-3dBm	<-20dBm	SC,5V/3.3V;SMF;RoHS
GBIC-ZX-SM	1.25G	1550nm	80KM	DFB	550M	0~+5dBm	<-24dBm	SC, 5V/3.3V;SMF;Ro

Due to continuous improvement, all products specifications are subject to change without further notice.  
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