A Group brand legrand

SPECIFICATION SHEET

1000Base-TX GBIC Transceiver Modules

Product Features

- Hot-pluggable GBIC footprint
- Extended case temperature range (0°C to +70°C)
- Low power dissipation (1.05 W typical)
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus

Application

- 1.25 Gigabit Ethernet over Cat5 cable

Product Description

These 1000BASE-T Copper GBIC transceivers are based on the GBIC Multi Source Agreement (MSA). They are compatible with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE Std 802.32. The 1000BASE-T physical layer IC (PHY) can be accessed via I2C, allowing access to all PHY settings and features. The GE-GB-G uses the GBIC's RX_LOS pin for link indication, and 1000BASE-X auto-negotiation should be disabled on the host system. The GE-GB-G is compatible with 1000BASE-X auto-negotiation, but does not have a link indication feature (RX_LOS is internally grounded).

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Regulatory Compliance

C2G transceivers are Class 1 Laser Products comply with FDA regulations. Meet Class 1 eye safety requirements of EN 60825 and the electrical safety requirements of EN 60950.

Low-Speed Signals

Parameter	Symbol	Min.	Typical	Max.	Unit
GBIC Output LOW	VOL	0		0.5	V
GBIC Output High	VOH	Host_Vcc-0.5		Host_Vcc+0.3	V
GBIC Input LOW	VIL	0		0.8	V
GBIC Input HIGH	VIH	2		Vcc+0.3	V

High-Speed Signals

Parameter	Symbol	Min.	Typical	Max.	Unit
Transmission Line-SFP					
Line Frequency	fL		125		MHz
TX Output impedance	Zout, TX		100		Ohm
Rx Input Impedance	Zin, RX		100		Ohm
Host-SFP					
Single ended data input swing	Vinsing	250		1200	mV
Single ended data output swing	Voutsing	350		800	mV
Rise/Fall Time	Tr,Tf		175		Psec
Tx Input Impedance	Zin		50		Ohm
Rx Output Impedance	Zout		50		Ohm

Environmental Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Temperature	Top	0		70	°C
Storage Temperature	Tsto	-40		85	°C

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3.3 Volt Electrical Power Interface

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Transmitter						
Supply Current	Is		220	260	mA	1
Input Voltage	Vcc	4.7	5	5.3	V	2
Maximum Voltage	Vmax			5.5	V	
Surge Current	Isurge			30	mA	3

Notes

1. 1.2W max power over full range of voltage and temperature. Power consumption and surge current are higher than the specified values in SFP MSA.
2. Referenced to GND
3. Hot plug above steady state current. Power consumption and surge current are higher than the specified values in SFP MSA.

1000Base-TX GBIC Transceiver Modules

Part Number	Description
39467	Cisco[R] WS-G5483 Compatible 1000Base-TX GBIC Transceiver Module

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