

WS-G5483-LEG
 CISCO, 1000BASE-TX GBIC
 100M REACH COPPER RJ-45



1000BASE-TX GBIC

Features

- Up to 1.25Gbps bi-directional data links
- Compliant with IEEE 802.3z, IEEE 802.3ab compliant
- Compliant with GBIC Specification Revision 5.5
- Hot Pluggable
- Support 1000Base-T full duplex default operating mode
- RJ-45 connector
- RoHS Compliant
- Operating Temperature: 0°C to 70°C



Product Description

Legrand’s WS-G5483-LEG is a RJ-45 GBIC transceiver that operates over Copper, with a maximum reach of 100m, and built to meet or exceed the OEM's specifications.

The WS-G5483-LEG is designed to be compliant with MSA (Multi-Source Agreement) standards.

General Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Data Rate	DR			1000	Mb/sec
Data Reach	Icc3			100	m
Bit Error Rate	BER			10 ⁻¹²	
Operating Temperature	T _{op}	0		70	°C
Storage Temperature	T _{STO}	-40	10.3	10.5	°C
Supply Current	I _S		310	375	mA
Input Voltage	V _{CC}	3.15	5	5.5	V
Maximum Voltage	V _{MAX}			6	V
Surge Current	I _{SURGE}			30	mA

High Speed Electrical Interface Host-GBIC

Parameter	Symbol	Min.	Typ.	Max.	Unit
Differential Input Voltage	V_{INDIFF}	500	600	2000	mV
Differential Output Voltage	$V_{OUTDIFF}$	379		2000	mV
Rise/Fall Time (20%-80%)			250		psec
Tx Input Impedance	Z_{IN}		75		ohm
Rx Output Impedance	Z_{OUT}		75		ohm

High Speed Electrical Interface Transmission Line-GBIC

Parameter	Symbol	Min.	Typ.	Max.	Unit
GBIC Output Low	V_{OL}	0		0.5	V
GBIC Output High	V_{OH}	Host_ V_{CC} -0.5		Host_ V_{CC} +0.3	V
GBIC Input Low	V_{IL}	0		0.8	V
GBIC Input High	V_{IH}	2		V_{CC} -0.5	V

Pin Descriptions

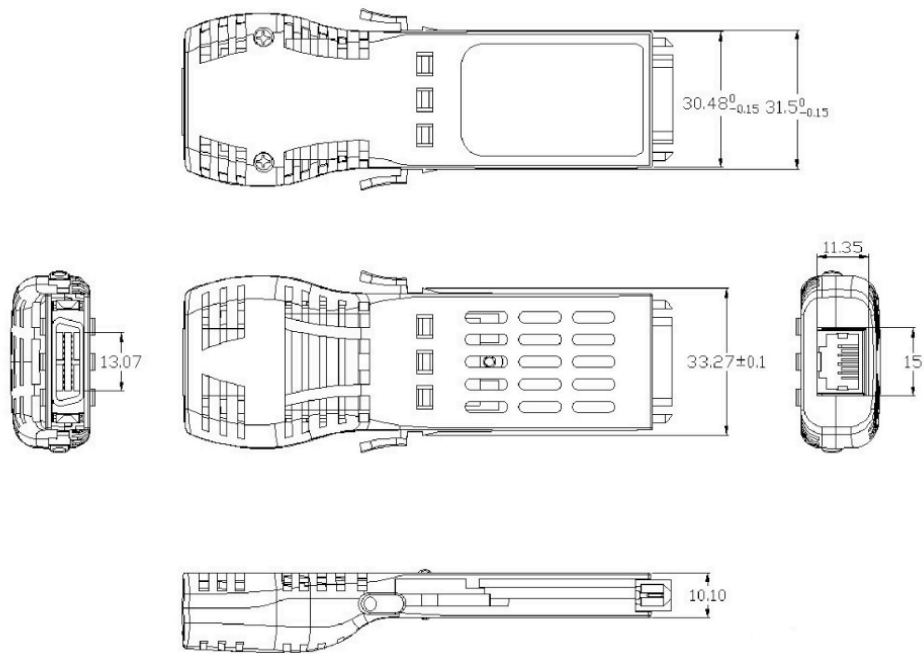
Pin. Num.	Name	Function	Note
1	RX_LOS	Receiver Loss of Signal	
2	RGND	Receiver Ground	1
3	RGND	Receiver Ground	1
4	MOD_DEF(0)	TTL Low	1
5	MOD_DEF(1)	SCL Serial Clock Signal	2
6	MOD_DEF(2)	SDA Serial Data Signal	2
7	TX_DISABLE	Transmitter Ground	3
8	TGND	Transmitter Ground	1
9	TGND	Transmitter Ground	1
10	TX_FAULT	Transmitter Fault	1
11	RGND	Receiver Ground	1
12	RD-	Receiver Inverted Data out. AC Coupled	4
13	RD+	Receiver Non-inverted DATA out. AC Coupled	4
14	RGND	Receiver Ground	1

15	V _{CCR}	Receiver Power Supply	
16	V _{CCT}	Transmitter Power Supply	
17	TGND	Transmitter Ground	1
18	TD+	Transmitter Non-Inverted DATA in. AC Coupled	4
19	TD-	Transmitter inverted DATA in AC Coupled	4
20	TGND	Transmitter Ground	1

Note:

1. Ground to GBIC
2. Low speed, from GBIC
3. Low speed, to GBIC
4. High speed serial from GBIC

Mechanical Specifications



Unit: millimeter