

Fiber Optic Transceiver GBIC Gigabit Ethernet, 10 km reach, 1310 nm



## FXC-GBC1G-31-10

### Features

- Operating Data Rate up to 1.25Gbps
- Distance Range 10km
- Pluggable GBIC with Duplex SC Connector
- Standard Operating Temperature
- MSA Compliant

### Applications

- GBE Links
- Enterprise Networks
- FTTx
- Legacy Switches

### Description

The L-com FXC-GBC1G-31-10 is an GBIC form-factor transceiver, supporting Gigabit Ethernet data rates. The L-com FXC-GBC1G-31-10 features a 1310 nm transmitter and supports 10 km links over single mode fiber. The FXC-GBC1G-31-10 is an MSA-compliant transceiver, compatible with most switch and router platforms. The L-com FXC-GBC1G-31-10 GBIC transceiver is one of thousands of fiber optic connectivity products available from L-com in-stock and ready to ship. Contact our knowledgeable technical support and sales staff for your answers on fiber optic connectivity or other L-com products.

### Configuration

Connector 1	SC
Connector Mode	Duplex
Compatibility	MSA

### Filter Specifications

Description	Minimum	Typical	Maximum	Units
TX Center Wavelength	1,260	1,310	1,360	nm
TX Data Rate		1.25		Gbps
TX Spectral Width			4	nm
TX Average Output Power	-9		-3	dBm
TX Extinction Ratio	9			dB
RX Center Wavelength	1,100		1,600	nm
RX Receiver Sensitivity	-21			dBm
RX Receiver Overload			-3	dBm

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Fiber Optic Transceiver GBIC Gigabit Ethernet, 10 km reach, 1310 nm FXC-GBC1G-31-10](#)

Fiber Optic Transceiver GBIC Gigabit Ethernet, 10 km reach, 1310 nm



## FXC-GBC1G-31-10

**Table A.2: GBIC pin usage, style 1 or style 2 balanced cable connectors,**

Pin Name	Pin #	Description	Pin Name	Pin #	Description
RX_LOS	1	Receiver Loss of Signal	RGND	11	GND
RGND	2	GND	-RX_DAT	12	- RX, ext. connector***
RGND	3	GND	+RX_DAT	13	+ RX, ext. connector***
MOD_DEF(0)	4	NC	RGND	14	GND
MOD_DEF(1)	5	NC	V <sub>DDR</sub>	15	V <sub>DDR</sub> or NC
MOD_DEF(2)	6	TTL LOW from GBIC	V <sub>DDT</sub>	16	V <sub>DDT</sub>
TX_DISABLE	7	Transmitter Disable	TGN	17	GND
TGND	8	GND	+TX_DAT	18	+ TX, ext. connector**
TGND	9	GND	-TX_DAT	19	- TX, ext. connector**
TX_FAULT	10	TTL LOW from GBIC*	TGN	20	GND
<p>* Signal may optionally be implemented as specified in 3.3.  ** Signal is buffered by copper transmitter circuit from GBIC pins.  *** Signal is buffered by copper receiver circuit from GBIC pins.</p>					

### Environmental Specifications

#### Temperature

Operating Range

0 to +70 deg C

Storage Range

-40 to +85 deg C

Notes:

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

Fiber Optic Transceiver GBIC Gigabit Ethernet, 10 km reach, 1310 nm



## **FXC-GBC1G-31-10**

Fiber Optic Transceiver GBIC Gigabit Ethernet, 10 km reach, 1310 nm from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

Mechanical Specifications

