

Part Number: GBIC-1000Base-LH-40  
GBIC-1000Base-LH-40-IND

#### Quick Spec:

Form Factor:	GBIC
TX Wavelength:	1550nm
Reach:	40km
Cable Type:	singlemode fiber
Rate Category:	1000Base
Interface Type:	LH
DDM:	No
Connector Type:	Dual-SC



#### PRODUCT FEATURES

- Up to 1.25Gb/s data links
- DFB laser transmitter and PIN photo-detector
- Up to 40km on 9/125 $\mu$ m SMF
- Hot-pluggable GBIC footprint
- Duplex LC/UPC type pluggable optical interface
- Low power dissipation
- Metal enclosure, for lower EMI
- RoHS compliant and lead-free
- Single +3.3V power supply
- Support Digital Diagnostic Monitoring interface
- Compliant with SFF-8472
- Case operating temperature
  - Standard 0 to +70 °C
  - Industrial -40 to +85 °C

#### APPLICATIONS

- Switch to Switch Interface
- Gigabit Ethernet
- Switched Backplane Applications
- Router/Server Interface
- Other Optical Links

#### PRODUCT DESCRIPTION

FLUXLIGHT's 1000Base-LH-40 are compatible with the GBIC Multi-Sourcing Agreement (MSA). The transceiver consists of five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, the DFB laser and the PIN photo-detector. The module data link up to 40KM in 9/125 $\mu$ m single mode fiber.

The optical output can be disabled by a TTL logic high-level input of Tx Disable, and the system also can disable the module via I2C. Tx Fault is provided to indicate that degradation of the laser. Loss of signal (LOS) output is provided to indicate the loss of an input optical signal of receiver or the link status with partner. The system can also get the LOS (or Link)/Disable/Fault information via I2C register access.