

D-TECH SFP 1.25G BIDI Tx1490/Rx1550nm DDM

SFP 1.25G 80 KM LC

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Variants

80km LC

Details

General Description of SFP 1.25G LC:

Small Form Factor Pluggable (SFP) transceivers are compatible with the Small Form Factor Pluggable 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 80km in 9/125um single mode fiber. Tx Fault is provided to indicate the degradation of the laser. Loss of signal (LOS) output is provided to indicate the loss of an input optical signal from the receiver or the link status with the partner. The system can also get the LOS (or Link) Disable/Fault information via I2C register access.

The SFP 1.25G BiDi 1550Tx/1490Rx 80KM LC transceiver is a specific type of small form-factor pluggable (SFP) transceiver commonly used in data communication applications, particularly in fiber optic networks. Here's a breakdown of its specifications:

Data Rate: 1.25 gigabits per second (Gbps)

BiDi (bidirectional): This means the transceiver is capable of both transmitting and receiving data over a single fiber optic strand.

It utilizes two different wavelengths for transmission and reception: 1550 nanometers (nm) for transmitting (Tx) and 1490nm for receiving (Rx).

Maximum Transmission Distance: 80 kilometers (km). This specifies the maximum distance over which the transceiver can reliably transmit and receive data.

LC Connector: LC connectors are a type of fiber optic connector commonly used in networking equipment. They are small, easy to use, and provide low insertion loss.

Features of SFP 1.25G 80 KM LC:

Up to 1.25 GB/s data links

1490nm DFB laser transmitter and PIN

photo-detector

Up to 80km on 9/125 μ m SMF
Hot-pluggable SFP footprint
BIDI LC/UPC-type pluggable optical interface
Low power dissipation
Metal enclosure, for lower EMI
RoHS-compliant and lead-free
Support Digital Diagnostic Monitoring
interface: Single +3.3V power supply
Compliant with SFF-8472
Case operating temperature
Commercial: 0 ~ +70 oC
Extended: -10 ~ +80oC
Industrial: -40 ~ +85 oC

Applications of SFP 1.25G 80 KM LC:

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

Part Number Ordering Information:

Part Number	Data Rate (Gb/s)	Wavelength (nm)	Maximum Transmission Distance	Temperature (°C) (Operating Case)
HTSFB1G4955ZC	1.25	1550Tx/1490Rx	80km SMF	0~70 (Commercial)
HTSFB1G4955ZE	1.25	1550Tx/1490Rx	80km SMF	-10~80 (Extended)
HTSFB1G4955ZI	1.25	1550Tx/1490Rx	80km SMF	-40~85 (Industrial)