

# D-TECH SFP 1.25G BIDI Tx1550/Rx1310nm DDM

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## **Variants**

40km LC 60km LC 10km LC 20km SC 20km LC

## **Details**

### **General Description:**

HTF'HTSF-B1G3155Lx 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 FP laser and the PIN photo-detector. The module data link up to 10km 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) or disable/fault information via I2C register access.

SFP stands for Small Form-factor Pluggable. It is a compact, hot-pluggable transceiver used for data communication applications such as gigabit Ethernet and fiber channel. SFP transceivers support various communication standards, including Ethernet, SONET/SDH, and Fibre Channel.

BiDi (bidirectional) indicates that the transceiver can transmit and receive data using only one fiber-optic cable. This is achieved through wavelength division multiplexing (WDM), where the transmitter operates at one specific wavelength (1310nm in this case) and the receiver operates at another specific wavelength (1550nm in this case).

## **Features:**

Up to 1.25 GB/s data links

1310nm FP laser transmitter and PIN photodetector

Up to 10km on 9/125 $\mu$ 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:**

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)
HTSFB1G3155LC	1.25	1310Tx/1550nmR	10km SMF	0~70 (commercial)
HTSFB1G3155LE	1.25	1310Tx/1550nmR	10km SMF	-10~80 (Extended)
HTSF-B1G3155LI	1.25	1310Tx/1550nmR	10km SMF	-40~85 (Industrial)