

# D-TECH SFP 10G BIDI Tx1270/Rx 1330nm DDM

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## Variants

80KM LC   20km LC   60km LC   40km LC   10km LC

## Details

### SFP 10G 80 KM LC DDM in Nepal:

The SFP 10G 80KM LC module is a high-performance transceiver designed for 10 Gigabit Ethernet applications that require long-distance connectivity. With a maximum transmission distance of 80 kilometers, this module is optimized for extended-range networking deployments where reliable and high-speed connectivity is essential.

Featuring an LC connector interface, the SFP 10G 80KM LC module ensures secure and reliable connectivity with standard LC interfaces commonly found in networking equipment. This interface facilitates easy installation and compatibility with a wide range of networking devices.

This module operates using single-mode fiber (SMF), which enables efficient data transmission over longer distances while maintaining signal integrity and minimizing signal loss. The use of SMF makes the SFP 10G 80KM LC module suitable for long-distance networking applications where reliable connectivity over extended ranges is required.

The SFP 10G 80KM LC module complies with industry standards and is hot-swappable, allowing for convenient installation and replacement without interrupting network operations. It operates over a wide temperature range, making it suitable for deployment in various environmental conditions.

## Applications:

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10GBASE-ZR/ZW

10G Ethernet

## Features:

Up to 11.1 GB/s data

1490nm DFB laser and APD receiver for HTSX-B495596Zx

1550nm DFB laser and APD receiver for HTSX-B554996Zx

2-wire interface with integrated Digital Diagnostic monitoring

Up to 80km transmission on SMF

BIDI LC optical connector

Single +3.3V power supply

Metal enclosure, for lower EMI

Maximum power consumption: 1.8W

RoHS-6-compliant and lead-free

SFF-8472 MSA-compliant, and SFF-8431

Operating case temperature

Commercial: 0 ~ +70 oC

Extended: -10 ~ +80 oC; Industrial: -40 ~ +85 oC

## Part Number Ordering Information

Part Number	Data Rate (Gb/s)	Wavelength (nm)	Transmission Distance (km)	Temperature (°C) (Operating Case)
HTSXB495596ZC	10.3125	1490Tx/1550Rx	80km SMF	0~70 (commercial)
HTSXB554996ZC	10.3125	1550Tx/1490Rx	80km SMF	0~70 (commercial)
HTSXB495596ZE	10.3125	1490Tx/1550Rx	80km SMF	-10~80 (extended)
HTSXB554996ZE	10.3125	1550Tx/1490Rx	80km SMF	-10~80 (extended)
HTSXB495596ZI	10.3125	1490Tx/1550Rx	80km SMF	-40~85 (industrial)
HTSXB554996ZI	10.3125	1550Tx/1490Rx	80km SMF	-40~85 (industrial)

These part numbers correspond to SFP modules with varying wavelength configurations and operating temperature ranges, all designed for transmission distances of up to 80 kilometers over single-mode fiber. The differences lie in the specific wavelength configurations and the temperature ranges for different operating environments (commercial, extended, and industrial).

## General Description:

HTF'HTSX-B495596Zx/HTSX-B554996Zx SFP+ transceiver is designed for use in 10-Gigabit Ethernet links up to 80km over single-mode fiber. The module consists of

CWDMDFB Laser, APD and Preamplifier in a highly integrated optical sub-assembly. Digital

Diagnostic functions are available via a 2-wire serial interface, as specified in SFF-8472. HTSX-B495596Zx transceivers provide a unique enhanced digital diagnostic monitoring interface, which allows real-time access to device operating parameters such as transceiver temperature, laser bias current, transmitted optical power,

received optical power and transceiver supply voltage. It also defines a sophisticated system of alarm and warning flags which alerts end-users when particular operating parameters are outside of a factory-set normal range.

The SFP+ MSA defines a 256-byte memory map in EEPROM that is accessible over a wire serial interface at the 8-bit address 1010000X (A0h). The digital diagnostic monitoring interface makes use of the 8-bit address 1010001X (A2h), so the originally defined serial ID memory map remains unchanged.

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