

# D-TECH SFP 1.25G BIDI Tx1490/Rx1310nm DDM

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## Variants

20km LC 20km SC

## Details

### SFP 1.25G BIDI (TX1490nm / RX1310nm)

#### Product Overview

The SFP 1.25G BIDI transceiver is a high-performance and cost-effective optical module designed for single-mode fiber (SMF) communication up to 20km using a single fiber. It supports dual data rates of 1.25Gbps and 1.0625Gbps, making it suitable for Gigabit Ethernet and fiber channel applications.

The module integrates a DFB laser transmitter, PIN photodiode receiver with TIA, and an MCU control unit. It complies with Class I laser safety standards and is fully compatible with SFP MSA and SFF-8472.

#### Key Features

- Dual data rate: 1.25Gbps / 1.0625Gbps
- 1490nm DFB laser & PIN receiver
- 20km transmission over single-mode fiber
- BIDI technology (single fiber communication)
- Digital Diagnostic Monitoring (DDM)
- Internal or external calibration support
- SFP MSA & SFF-8472 compliant
- Compatible with SONET OC-24-LR-1
- Low power consumption (3.3V)

RoHS compliant

Industrial & commercial temperature options

## Technical Specifications

Parameter	Specification
Form Factor	BIDI SFP
Data Rate	1.25 Gb/s
Wavelength	TX: 1490nm / RX: 1310nm
Transmission Distance	20 km
Diagnostics	Digital Diagnostic Monitoring (DDM)
Transmitter	DFB Laser
Receiver	PIN Photodiode
TX Output Power	-9 ~ -3 dBm
RX Sensitivity	? -23 dBm
Voltage Supply	3.3V
Connector	Simplex LC/UPC
Temperature Range	0°C ~ 70°C (Commercial) -40°C ~ 85°C (Industrial)

## Applications

Gigabit Ethernet

Fiber Channel

Switch to Switch Interface

Router / Server Connectivity

Optical Transmission Systems

