D-TECH SFP 1.25G BIDI Tx1550/Rx1310nm DDM

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Variants

1G 10km SC 1G 10km LC 1G 60km LC 1G 40km LC 1G 20km LC 1G 20km SC

Details

The **SFP 1.25G BIDI 20KM Optical Transceiver** is designed for Gigabit Ethernet and fiber optic communication applications over a single strand of single-mode fiber. Utilizing BiDi technology, the module transmits at **1310nm** and receives at **1550nm**, reducing fiber infrastructure costs while maintaining reliable long-distance performance.

This hot-pluggable SFP module supports Digital Diagnostic Monitoring (DDM), low power consumption, and excellent optical performance, making it ideal for ISP networks, enterprise networks, FTTH deployments, and data center connectivity.

Data Rate	**1.25G**
Distance	**10/20/40/60/80KM**

TX Wavelength

1310nm

RX Wavelength

1550nm

Key Features

- 1.25Gbps Gigabit Ethernet transmission
- Single Fiber BiDi technology
- 20KM transmission distance over SMF
- Tx 1310nm / Rx 1550nm wavelength configuration
- Hot-pluggable SFP form factor
- Digital Diagnostic Monitoring (DDM)
- Low power consumption design
- Suitable for ISP, FTTH, enterprise and telecom networks

General Specifications

Parameter	Specification
Product Type	SFP 1.25G BIDI Optical Transceiver
Data Rate	1.25 Gbps
Transmission Distance	20 KM

Parameter	Specification
TX Wavelength	1310nm
RX Wavelength	1550nm
Fiber Type	Single Mode Fiber (SMF)
Connector	Simplex LC
DDM / DOM	Supported

Optical Specifications

Parameter	Min	Max	Unit
TX Wavelength	1291	1330	nm
RX Wavelength	1531	—	nm
TX Output Power	-9	-3	dBm
Extinction Ratio	9	—	dB
Receiver Sensitivity	-24	—	dBm
Receiver Saturation	-3	5	dBm

Digital Diagnostics Monitoring (DDM)

Parameter	Range	Accuracy	Unit

Temperature	0 ~ +70	±3	°C
Voltage	3.0 ~ 3.6	±3%	V
TX Power	-9.5 ~ -3	±3	dBm
RX Power	-24 ~ -3	±3	dBm

Applications: Gigabit Ethernet, FTTH Networks, ISP Infrastructure, Enterprise LAN, Telecom Networks, CCTV Fiber Links, Data Centers and Fiber Backbone Networks.

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