D-TECH SFP 1.25G BIDI Tx1490/Rx1550nm DDM

SFP 1.25G 80 KM LC

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Variants

80km LC 60km LC 40km LC

Details

SFP 1.25G BiDi 1550Tx/1490Rx LC Optical Transceiver

The SFP 1.25G BiDi 80KM optical transceiver is a high-performance and cost-effective solution designed for long-distance fiber communication over a single fiber strand. Using bidirectional (BiDi) technology, it transmits at 1550nm and receives at 1490nm, enabling efficient network deployment with reduced fiber usage.

General Description

This SFP module complies with the SFP Multi-Source Agreement (MSA) and integrates key components such as LD driver, limiting amplifier, DFB laser, PIN photodetector, and Digital Diagnostic Monitoring (DDM). It supports up to 80KM transmission over 9/125µm single-mode fiber and provides Tx Fault, LOS (Loss of Signal), and I2C monitoring for reliable performance and diagnostics.

Technical Specifications

Parameter	Specification
Data Rate	1.25 Gbps
Transmission Type	BiDi (Single Fiber)
Wavelength	Tx: 1550 nm / Rx: 1490 nm
Transmission Distance	Up to 80 km

Parameter	Specification
Fiber Type	Single Mode Fiber (9/125μm)
Connector	Simplex LC/UPC
Laser Type	DFB Laser
Receiver Type	PIN Photodiode
Power Supply	Single +3.3V
DDM / DOM	Supported

Key Features

Up to 1.25Gbps data rate
BiDi transmission over single fiber
Hot-pluggable SFP form factor
Low power consumption
Metal enclosure for low EMI
RoHS compliant and lead-free
Digital diagnostic monitoring (DDM)

Applications

Gigabit Ethernet
Switch-to-Switch Interconnection
Router / Server Interface

FTTH & ISP Networks
Other Optical Transmission Systems

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