SFP 155M BIDI 1310TX/1550RX

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Variants

20km LC 20KM SC

Details

The **SFP 155M BiDi Transceiver** is a reliable and cost-effective optical module designed for **SDH/SONET, Fast Ethernet, switch, and router link applications**.

Using **Bi-Directional single-fiber technology**, it allows transmit and receive signals over one fiber core, reducing fiber usage and infrastructure cost while maintaining stable long-distance optical performance.

Data Rate

155 Mbps

Distance

Up to 60KM

Wavelength

1310TX / 1550RX

Fiber

Single Fiber

Technical Specifications

Category	Specification
Product Type	SFP Optical Transceiver (BiDi)
Form Factor	SFP Hot-Pluggable
Data Rate	155 Mbps, OC-3 / STM-1
Wavelength	TX: 1310nm / RX: 1550nm
Transmission Distance	Up to 60KM
Fiber Type	Single Mode Fiber, 9/125 µm
Connector Type	Simplex LC or SC
Optical Interface	Single Fiber BiDi
Laser Type	FP Laser
Receiver Type	PIN Photodiode
Transmit Power	-9 to -3 dBm
Receiver Sensitivity	? -32 dBm
Receiver Overload	? -3 dBm

Category	Specification
Extinction Ratio	? 10 dB
Spectral Width	? 3 nm
Power Supply	3.3V
Power Consumption	? 300 mA
DDM / DOM	Supported, SFF-8472
Hot Plug	Supported
Compliance	SFP MSA, SFF-8472, ITU-T G.957
EMI Protection	Metal Housing, Low EMI
Operating Temperature	-5°C to +70°C Commercial
Extended Temperature	-20°C to +80°C
Industrial Temperature	-40°C to +85°C
Humidity	0% – 85%

Key Benefits

- Single-fiber BiDi design reduces fiber cable usage
- Stable 155M optical transmission for SDH / SONET networks
- Long-distance transmission up to 60KM
- DDM / DOM monitoring for easier maintenance

- Hot-pluggable SFP design for simple installation
- Cost-effective solution for telecom and enterprise links

Applications

- SDH / SONET
- Fast Ethernet
- Switch Links
- Router Links
- Telecom Networks
- ISP Fiber Networks

Note: BiDi SFP modules must be used in matched pairs. For this model, the opposite side should use the reverse wavelength module: **1550TX / 1310RX**.

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