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OEM / FIBER OPTICS

Pair of 20KM Singlemode BiDi SFP Transceiver

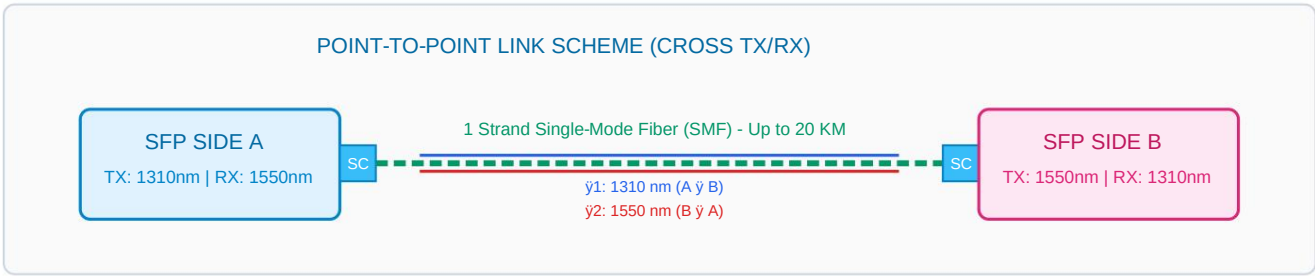
Model: SFP-GE-LX-1310/1550nm SC | TVC Key: OEM4160003

QUICK START GUIDE

PRODUCT DESCRIPTION

Pair of 1.25 Gbps bidirectional (BiDi) SFP (mini-GBIC) transceiver modules for single-mode optical fiber.
They allow simultaneous transmission and reception of data through a single fiber strand using two different wavelengths (1310 nm and 1550 nm), achieving link distances of up to 20 KM with a simple SC connector and DDM support.

BIDI CONNECTION DIAGRAM (1 FIBER STRAND)



QUICK INSTALLATION STEPS

1. Complementary Pair Verification: Ensure you install the module with TX 1310nm at one end (Site A) and the module with TX 1550nm at the opposite end (Site B). BiDi modules must always operate in cross-pairs.

2. Insertion into SFP Port: With the ejection lever closed, insert each SFP module into the slot SFP/Gigabit switch or media converter until you hear a firm click of attachment.

3. SC Single-Mode Cable Connection: Remove the dust cover and connect the single-mode fiber jumper with SC Simplex connector directly into the optical port of each SFP.

4. Link Validation and DDM: Verify that the SFP port LED on both switches lights up green (Link/Act). You can monitor temperature, optical power, and voltage in real time via the menu DDM of the switch.

Optical Safety Warning: Do not look directly at the optical connector or fiber tip when the module is powered on. Laser radiation is invisible but harmful to the eyes.

TECHNICAL SPECIFICATIONS

Parameter	Detail / Value
Data Speed	1.25 Gbps (Gigabit Ethernet / IEEE 802.3z)
Fiber Type and Distance	Singlemode (SMF 9/125 µm) | Maximum range: 20 KM
Wavelengths (TX / RX)	Side A: TX 1310nm / RX 1550nm | Side B: TX 1550nm / RX 1310 nm
Connector Type	SC Simplex (single fiber strand)
Digital Monitoring (DDM)	Yes (Real-time monitoring of power, voltage, and temperature)

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Parameter	Detail / Value
Temperature and Consumption	Operating temperature: 0°C to 70°C | Maximum power consumption: 1W
Compatibility	Universal SFP (MSA) for switches, routers and media converters