

ROHS COMPLIANT 1GBPS 1310NM SINGLE MODE OPTICAL TRANSCEIVER 20KM REACH

PRODUCT FEATURES

- FP laser transmitter and PIN photo-detector
- Dual Data-rate of 1.25Gbps/1.0625Gbps Operation
- Up to 20KM transmission distance on 9/125µm SMF
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic Monitor Interface
- Very low EMI and excellent ESD protection
- +3.3V single power supply
- Compatible with RoHS
- Operating case temperature
 - Commercial: 0°C to +70°C
 - Extended: -10°C to +80°C
 - Industrial: -40°C to +85°C

APPLICATIONS

- Gigabit Ethernet
- Fiber Channel
- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems



DESCRIPTION

The SFP transceivers are high performance, cost effective modules supporting dual data-rate of 1Gbps for up to 20km transmission distance with SMF.

The transceiver consists of three sections: a FP laser transmitter, a PIN photodiode integrated with a trans-impedance preamplifier (TIA) and MCU control unit. All modules satisfy class I laser safety requirements.

The transceivers are compatible with SFP Multi-Source Agreement (MSA) and SFF-8472. For further information, please refer to SFP MSA.

ORDERING INFORMATION

Product part Number	Data Rate (Mbps)	Media	Wavelength (nm)	Transmission Distance (km)	Temperature Range (Tcase) (°C)
NVL-SFP-SM-1G-20-V1 or V2*	1000	Single mode fiber	1310	<20	0-70 commercial

*V1 Type or V2 Type, depends on compatibility switches brand
Longer distances modules are available upon request