

Intel FTLX8571D3BCV-IT Datasheet



Intel FTLX8571D3BCV-IT 1G/10G Dual Rate 850nm Multimode SFP+ Optical Transceiver Module

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This Intel FTLX8571D3BCV-IT 1G/10G Dual-Rate SFP+ optical transceivers are designed for use in 1-Gigabit and 10-Gigabit Ethernet links over multimode fiber. They are compliant with SFF-8431, IEEE 802.3-2012 10GBASE-SR/SW and 1000BASE-SX. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472. The FTLX8571D3BCV-IT is a “limiting module”, i.e., it employs a limiting receiver. Host board designers using an EDC PHY IC should follow the IC manufacturer’s recommended settings for interoperability with an SFP+ limiting module. This product is for applications specifically designed for 10G SFP+ ports and 1G/10GSFP+ ports and not native 1G SFP ports. The optical transceiver is RoHS compliant as described in Application Note AN-2038.

Features

- Hot-pluggable SFP+ footprint
- Supports rate selectable 1.25 Gb/s or 9.95 to 10.3 Gb/s bit rates
- Power dissipation < 1 W
- RoHS-6 compliant (lead-free)
- Commercial temperature range 0 °C to 70 °C
- Single 3.3 Vdc power supply
- Max. link length 300 m on 2000 MHZ-km MMF (SR), 10 km (LR)
- Uncooled 1310 nm DFB laser (LR)
- Receiver limiting electrical interface
- Duplex LC connector

- Built-in digital diagnostic functions

Specifications

- Distance: 400 m
- Data Rate (max): 10.3 Gb/s
- Protocol: Optical Gigabit Ethernet Compliant 10 Gigabit Ethernet Compliant Wireless CPRI Compliant
- Low End Case Temperature (°C): 0
- High End Case Temperature (°C): 70
- Diagnostics: Digital
- Transmitter: VCSEL
- Receiver: PIN
- Voltage Supply: 3.3
- Connector: LC
- Wavelength: 850nm Band

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