

Finisar FTLX8574D3BCV Datasheet



Finisar FTLX8574D3BCV 10G/1G Dual Rate (10GBASE-SR and 1000BASE-SX) 400m Multimode Datacom SFP+ Optical Transceiver

FTLX8574D3BCV

FTLX8574D3BCV 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 FTLX8574D3BCV 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 < 1W
- RoHS compliant
- Single 3.3V power supply
- Maximum link length of 400m on OM4 MMF
- Uncooled 850nm VCSEL laser
- Receiver limiting electrical interface
- Duplex LC connector

- Built-in digital diagnostic functions
- Commercial temperature range: 0°C to 70°C

Applications

- 1000BASE-SX 1G Ethernet
- 10GBASE-SR/SW 10G Ethernet

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

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