

# Finisar FCLF-8520-3 Datasheet



## II-VI Finisar 1.25Gbps 100m Copper SFP Transceiver Module

### FCLF-8520-3

The II-VI Finisar FCLF-8520-3 1000BASE-T Copper Small Form Pluggable (SFP) transceivers are based on the SFP Multi Source Agreement (MSA). They are compatible with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE Std 802.32. The 1000BASE-T physical layer IC (PHY) can be accessed via I2C, allowing access to all PHY settings and features.

The FCLF-8520-3 uses the SFP's RX\_LOS pin for link indication, and 1000BASE-X auto negotiation should be disabled on the host system. The FCLF-8521-3 is compatible with 1000BASE-X auto-negotiation, but does not have a link indication feature (RX\_LOS is internally grounded). See AN-2036 ("Frequently Asked Questions Regarding Finisar's 1000BASE-T SFPs") for a more complete explanation on the differences between the two models and details on applications issues for the products.

The optical transceiver is compliant per the RoHS Directive 2011/65/EU. See Finisar application Note AN-2038 for more details.

## Features

- Up to 1.25Gb/s bi-directional data links
- Hot-pluggable SFP footprint
- Extended case temperature range -0°C to +85°C
- Fully metallic enclosure for low EMI
- Low power dissipation (1.05W typical)
- Compact RJ-45 connector assembly
- RoHS-6 compliant (lead-free)
- Access to physical layer IC via 2-wire serial bus
- 10/100/1000 BASE-T operation in host systems with SGMII interface

## Applications

- 1.25 Gigabit Ethernet over Cat 5 cable

## Specifications

- Data Rate (max): 1.25 Gb/s
- Connector: RJ45
- Wavelength: N/A
- Distance: 100 m
- Diagnostics: N/A
- Transmitter: N/A
- Receiver: N/A
- Voltage Supply: 3.3V
- Low End Case Temperature: 0°C
- High End Case Temperature: 85°C
- Protocol: 1000Base-T Compliant

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