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Find the *Finisar FTR-8519-3* at our website: *Click HERE*

Finisar

Fibre Optic Subsystems &
Network Performance Test Systems

GBIC Transceiver Modules

Fibre Channel and GigE High-Performance “Smart” Optical Gigabit Interface Converters

Highlights

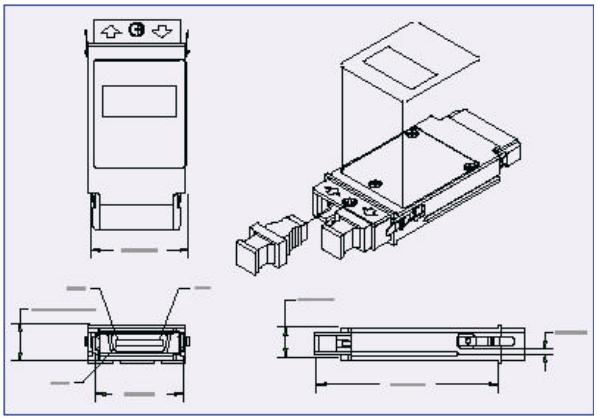
- ☐ Auto-Sense OFC Interoperability
- ☐ Built-in Diagnostics
- ☐ Extended Voltage & Temperature Range
- ☐ Available for 5V or 3.3V Systems
- ☐ Up to 1.25 Gbps Bi-Directional Data Links
- ☐ Plug and Play Capability
- ☐ Low Power Dissipation
- ☐ Metal Enclosure for Lower Emmissions and ESD



Finisar's family of GBIC transceiver modules are state-of-the-art components designed expressly for the building of high-speed bi-directional communication links that require data rates of up to 1.25 Gb/s. The "smart" optical GBIC modules provide serial ID plus a special management and diagnostics port. Using the standard 2-wire I C protocol, a host can communicate with the GBIC transceivers to obtain status and operating parameters. This built-in intelligence makes Finisar optical transceivers the preferred choice for systems where high reliability and system-level diagnostics are critical.

Both short- and long-wavelength modules are available in versions that can automatically configure themselves to interoperate with Fibre Channel devices that do and do not run the OFC protocol. The modules are available in both 5 V and 3.3 V versions, and operate at special extended voltage (4.5 to 5.5 V or 3.15 to 5.5 V) and temperature (-10 to 85 C) ranges. All Finisar GBIC transceivers support hot plug-and-play capability for Gigabit Ethernet and Fibre Channel applications. The optical GBIC transceivers dissipate less than 0.8 watt-less than 50% of the maximum power allowed by the GBIC specification. The modules' metal enclosure not only makes them sturdier, but also improves the transceiver's FCC test margins. This emissions and ESD control is particularly important in applications with sensitive multiport hubs and switches. With Finisar's innovative latch-arm design, users can easily install and remove GBIC modules with one hand, and with no tools.

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Technical Specifications

Transmitter Type
- FTR-8519; Shortwave laser, 850 nm multi-mode
- FTR-1319; Longwave laser, 1310 nm single-mode

Data Rate (nominal range)
- 1062.5 to 1250 Mbaud

Average Launch Power
- FTR-8519 (62.5 µm MMF): -10 dBm min, -4 dBm max
- FTR-1319: -8 dBm min, -3 dBm max

Transmitter Extinction Ratio
- 9dB min

Data Format
- 8B/10B

Average Receive Power
- FTR-8519 -17 dBm min, -22.5 dBm typical, 0 dBm max
- FTR-1319: -19 dBm min, -26.5 dBm typical, -3 dBm max

Optical Output Power, TX_DISABLE Asserted
- -35 dBm max

Connector
- Duplex SC defined by FC-PH

Power Supply (5V version)
- 4.5 to 5.5 VDC
- FTR-8519: 150 mA max
- FTR-1319: 210 mA max

Power Supply (3.3V version)
- 3.15 to 5.5 VDC
- FTR-8519: 200 mA max
- FTR-1319: 210 mA max

GBIC Interface Signals Supported
- RX_LOS
- TX_DISABLE
- TX_FAULT
- MOD_DEF (0, 1, 2)

Serial Identification Protocol
- Compliant with mod. def. 4

Management & Diagnostics
- Laser Current
- Received Power
- Transmit Power
- Tx Temperature
- T/R Calibration Values
- System Status

Operating Temperature
- -10 to 85°C

Regulatory
- Class 1 devices per FDA/CDRH and IEC-825-1 laser saftey regulations

Ordering Information

Part Number	Description
FTR-8519P-5A	Shortwave Multi-mode GBIC Tranceiver, 5V supply, mod. def. 4
FTR-8519-3A	Shortwave Multi-mode GBIC Tranceiver, 3.3V supply, mod. def. 4
FTR-8520-5	Shortwave Multi-mode GBIC Tranceiver, 5V supply, mod. def. 4 with Auto-sensing OFC control
FTR-1319P-5A	Longwave Single-mode GBIC Tranceiver, 5V supply, mod. def. 4
FTR-1319-3A	Longwave Single-mode GBIC Tranceiver, 3.3V supply, mod. def. 4
FTR-1320-5	Longwave Single-mode GBIC Tranceiver, 5V supply, mod. def. 4 with Auto-sensing OFC control
FTR-1012	Evaluation Board

Finisar

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