

PRODUCT BRIEF

KEY FEATURES

- ▶ Supports 125 Mb/s to 10.3 Gb/s optical data links over multi-mode fibers
- ▶ Short-Reach 850nm VCSEL Multi-mode or Long-Reach 1310nm DFB Single-mode available
- ▶ Multi-rate versions available
- ▶ Compact form-factor: Half the size of SFF transceivers
- ▶ Multiple modules can be mounted side-by-side on a Printed Circuit Board
- ▶ Built-in digital diagnostic functions
- ▶ Duplex LC optical connection
- ▶ Single 3.3V power supply
- ▶ Interoperable with equivalent SFP and SFP+ optical transceivers
- ▶ Meets applicable requirements for Gigabit Ethernet, 10 Gigabit Ethernet, and Fibre Channel

APPLICATIONS

- ▶ Fast Ethernet
- ▶ 10 Gigabit Ethernet
- ▶ 1 Gigabit Ethernet
- ▶ 8G Fibre Channel
- ▶ 4G Fibre Channel
- ▶ 2G Fibre Channel
- ▶ Proprietary high-speed data links

COMPACT 125 Mb/s to 10 Gb/s OPTICAL TRANSCEIVERS

OVERVIEW

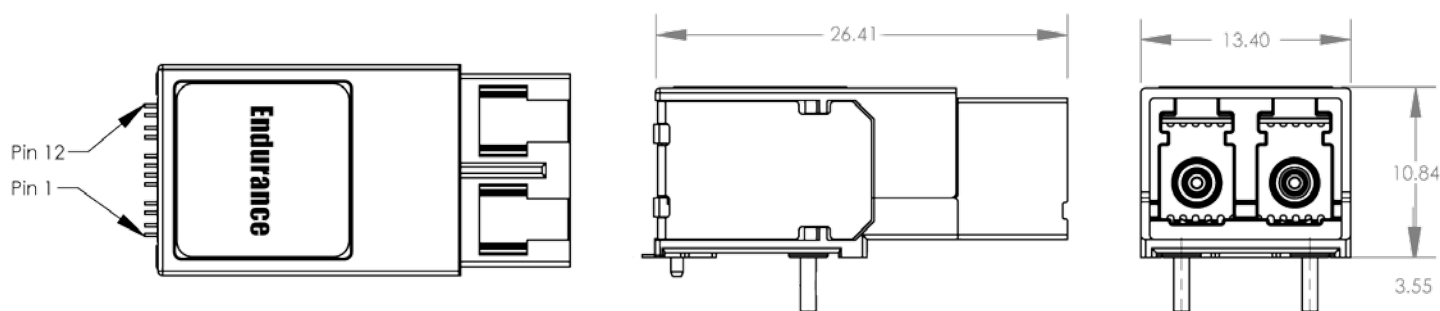
Endurance® is a family of compact transceiver modules designed for Fibre Channel and Ethernet optical data links. It utilizes Finisar's internally developed ICs, which enables the compact form-factor and low power consumption. Because Endurance has two through-hole mounting posts and the pins are soldered directly to the board, it does not use a host cage. The compact module saves valuable board space and allows multiples of them to be mounted side-by-side on a Printed Circuit Board (PCB) for high-density port counts.

The simple serial interface is independent of protocol and can thus be used in a wide range of applications. Digital diagnostic functions for monitoring and control of the module are provided via a 2-wire serial interface.

KEY ADVANTAGES

- Saves valuable board space with its compact size
- Low power consumption, less than 0.6 Watts
- Utilizes Finisar's vertically integrated and highly reliable laser technology and integrated circuit capabilities
- Board-mount solution guarantees equipment providers will capture the value of the optical module versus pluggable optics





Measurements are in mm

SPECIFICATIONS

Parameter	Short-Reach/Short-Wave	Long-Reach/Long-Wave
Supply Voltage	3.3 Volts	3.3 Volts
Supply Current, Max	180 mA	250 mA
Tx Optical Wavelength	850 nm VCSEL Multi-mode	1310nm DFB Single-mode
Operating Temperature Range	0°C to +70°C	0°C to +70°C
Link Distance	26 to 300 meters* (10 Gb/s) 70 to 150 meters* (4 Gb/s) 300 to 550 meters* (1 Gb/s)	10 km

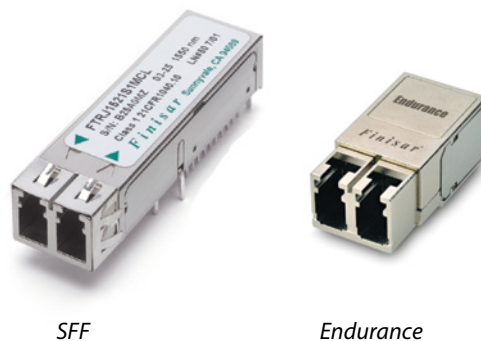
*Dependent on multi-mode fiber type

PRODUCT SELECTION

Part Number	Description
FTE8510N1LCN	Endurance, Short-Reach, 10 GbE, 0°C to 70°C
FTE8508N1LCN	Endurance, Short-Reach, 8x/4x/2x Fibre Channel, 0°C to 70°C
FTE8504N1LCN	Endurance, Short-Reach, 1 GbE & 4x/2x/1x Fibre Channel, 0°C to 70°C
FTE1411N1LCN	Endurance, Long-Reach, 10 GbE/1 GbE Dual-Rate, 0°C to 70°C

Contact Finisar for other product options.

SIZE COMPARISON



Finisar®

1389 Moffett Park Drive
Sunnyvale, CA 94089-1133
www.finisar.com

Phone: +1-408-548-1000
Sales: +1-408-541-5690
Email: sales@finisar.com

© 2014 Finisar Corporation. All rights reserved. Finisar and Endurance are registered trademarks of Finisar Corporation. Features and specifications are subject to change without notice. 06/14