

Small Form Factor (SFF) Transceiver  
 LC Connector  
 OC-3, OC-12, OC-48,  
 Single Mode 1310 nm, 3.3 V

Infinion's small form factor LC transceiver family is designed for single mode fiber applications operating at 1310 nm wavelength within synchronous optical networks. The wide range of products covers data rates from 100 Mb/s up to 2500 Mb/s by transmitting and receiving light over distances up to 40 km. Its narrow width design enables hardware designers to fit up to 32 modules on to a single line card. All units comply with the latest SONET/SDH standards and meet FDA laser class 1. They come in a fully shielded package to provide best prevention against EMI radiation.



SM SFF

**Applications**

- Line cards for the backbone infrastructure of Internet and public switched networks (SONET/SDH/ATM Networks)
- High-speed server applications
  - Internet traffic management products
  - High speed router
  - Digital and optical cross connects
  - Add/drop multiplexer
  - Terminal multiplexer
  - Broadband/CATV

**Features**

- Data rates from 100 Mb/s up to 2.5 Gb/s
- 1310 nm FP or DFB laser
- 3.3 V power supply
- 2by5 or 2by10 MSA compatible footprint
- LC connector
- Half the size of current 1x9 SC transceiver
- Full shielded for best EMI performance
- Tx and Rx monitoring functions
- Distances up to 15 km (40 km on OC-3) can be covered

**Applied Standards**

- ITU-T G.957 STM
- ATM Forum
- Bellcore SONET/SDH

**Documentation and Support Package**

- Data sheets
- Cross reference
- Samples
- Qualification report
- Test boards

**Certifications**

- UL 94 V-0
- FCC (Class B) and EN 55022
- Class 1 FDA
- IEC laser safety compliant

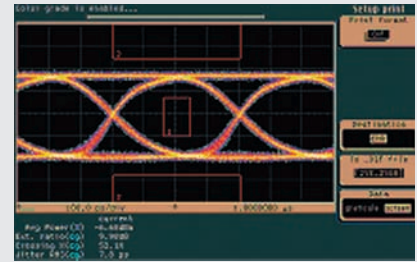
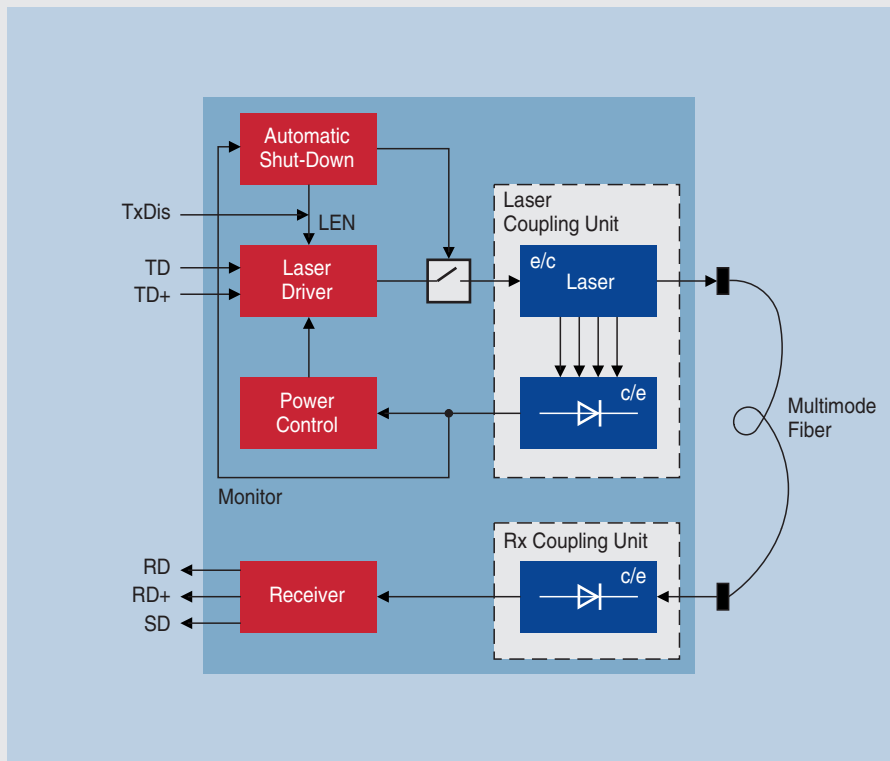
[www.infineon.com/fiberoptics](http://www.infineon.com/fiberoptics)

SM SFF Transceiver  
 SONET/SDH/ATM



Never stop thinking.

## Block Diagram



The transmitter converts LVPECL compatible electrical serial data into optical serial data. The transmitter contains a laser driver circuit that drives the modulation and the bias current of the laser diode. The currents are controlled by a power control circuit to guarantee constant output power of the laser over temperature and aging. The receiver component converts the optical serial data into LVPECL compatible electrical data.

### Availability

Now in production

### Ordering Information

Data Rate	Part Number for 2by10 AC Coupled Modules
155 Mb/s	V23818-C18-L47 (only 2by5)
622 Mb/s	V23818-H18-L47
2.5 Gb/s	V23818-N15-L353

Pluggable OC48 modules available (V23818-N15-B57) as well as a complete line of transceiver modules for datacom applications.

### Options

- DC coupled modules
- Extended operating temperature (-40°C to +85°C)
- Collar free version
- MU package
- 2by5 pin-out

Please refer to data sheets for detailed ordering information

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Infineon Technologies is an approved CECC manufacturer.

### Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office in Germany or our Infineon Technologies Representatives worldwide.

### Warnings

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