

# Product Guide

Transceivers, Transponders,  
and Active Optical Cables



# FINISAR®



# Transceivers, Transponders, and Active Optical Cables

## SFP (copper and optical; longwave, shortwave and WDM)

**DATACOM** applications using Fast Ethernet, Gigabit Ethernet, 1x/2x/4x Fibre Channel

**TELECOM** applications using OC-3/STM-1, OC-12/STM-4, OC-48/STM-16, EPON/GPON and Wireless/CPRI across all reaches

### Features

- 3.3 V operating voltage
- Distances from very short links up to 100+ km
- Wide operating temperature range
- Metal enclosure for lower EMI
- Digital diagnostics
- Wireless CPRI compliant



SFP

## SFP+/SFP28

(optical; longwave, shortwave, DWDM and tunable)

**DATACOM** applications using 10G and 25G Ethernet and 2x/4x/8x/10x/16x/32x Fibre Channel (LW and SW)

**TELECOM** applications using either OC-192/STM-64, 10G Ethernet, or Wireless/CPRI

### Features

- 3.3 V operating voltage
- Supports bit rates up to 28.05 Gb/s (LW, SW, and DWDM) and 11.3 Gb/s (Tunable)
- Distances from short links up to 80 km metro (LW, SW, and DWDM) and 80km (Tunable)
- Wide operating temperature range
- Digital diagnostics
- Wireless CPRI compliant (LW and SW)
- Bi-directional SFP+ transceiver available



SFP+/SFP28

## CFP/CFP2/CFP4/CFP8

(optical; longwave and shortwave)

**DATACOM** applications using 100G and 400G Ethernet

**TELECOM** applications using OTU4

### Features

- Hot-pluggable, MSA-compliant CFP, CFP2, CFP4 and CFP8 form factors
- Supports 103.1 Gb/s to 425 Gb/s aggregate bit rates
- Maximum link length of 100m on OM3 MMF, 150m on OM4 MMF, 10km on SMF
- 3.3 V operating voltage



CFP/CFP2/CFP4/CFP8

## QSFP+/QSFP28 (optical; longwave and shortwave)

**DATACOM** applications using 40G and 100G Ethernet and high-density 10G and 25G Ethernet

**TELECOM** applications using OTU3 and OTU4

### Features

- Four-channel full-duplex transceiver module
- Hot-pluggable, MSA-compliant QSFP+ and QSFP28 form factors
- Maximum link length of 300m on OM3 MMF, 400m on OM4 MMF, and 40 km on SMF
- 3.3 V operating voltage
- Digital diagnostics
- Wireless CPRI compliant (LW and SW)



QSFP+/QSFP28

## CXP (optical; shortwave)

**DATACOM** applications using 100G Ethernet and chassis interconnections

### Features

- Twelve-channel full-duplex transceiver module
- Hot Pluggable CXP form factor
- Maximum link length of 300m on OM3 MMF and 400m on OM4 MMF
- Multirate capability: supports 1.06 Gb/s to 12.5 Gb/s per channel



CXP

## Active Optical Cables

### SFPwire

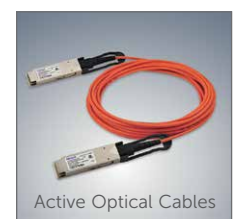
SFP+ Active Optical Cable for 10G and 25G Ethernet. Also available with Connectivity Diagnostics®

### quadwire

40 Gb/s to 100 Gb/s Parallel Active Optical Cable for 40GbE and 100GbE, InfiniBand 4xQDR, InfiniBand 4xFDR, InfiniBand 4xEDR and Intel® Omni-Path Architecture. Also available with Connectivity Diagnostics®

### C.wire

150 Gb/s Parallel Active Optical Cable for 100GbE and InfiniBand 12xQDR.



Active Optical Cables

## Optical Engines (optical; shortwave)

**DATACOM** applications for inter-chassis connections

### Features

- Twelve-channel full-duplex transceiver modules
- Maximum link length  
100m at 10 Gb/s on OM3 MMF  
70m at 25 Gb/s on OM4 MMF
- Multirate capability: supports 1 Gb/s up to 28.1 Gb/s per channel



## X2 (optical; longwave and shortwave)

**DATACOM** applications using 10G Ethernet

### Features

- Supports bit rates up to 10.5 Gb/s
- Distances up to 10 km
- Digital diagnostics



## Coherent (optical; longwave)

**TELECOM** 100 Gb/s and 200 Gb/s applications

### Features

- Pluggable CFP2-ACO analog coherent optics module
  - Highest density coherent interface
  - Enables “pay-as-you-grow” deployment of coherent optics
  - Analog interface is compatible with any external DSP
  - Modulation format independent, supports data rates > 200 Gb/s



## Endurance Compact Transceivers (optical; longwave and shortwave)

### Features

- Compact form-factor for high-density solutions
- Data rate flexibility including 1G and 10G Ethernet, Fast Ethernet, and 1x/2x/4x/8x/16x Fibre Channel
- Board-mounted for an edge optical interface or internal mounting
- Designed for rugged applications



## XFP (optical; longwave, shortwave, DWDM, and tunable)

**DATACOM** applications using 10G Ethernet and 10x Fibre Channel

**TELECOM** applications using OC-192/STM-64

### Features

- Supports bit rates up to 11.3 Gb/s
- Distances up to 200 km (LW, SW, and DWDM) and 80 km (Tunable)
- Digital diagnostics
- Wide operating temperature range versions available



## SFF (optical; longwave and shortwave)

**DATACOM** applications using Gigabit Ethernet, 1x/2x/4x Fibre Channel

**TELECOM** applications using OC-3/STM-1, OC-12/STM-4 and OC-48/STM-16 across all reaches

### Features

- Distances from very short links up to 80 km
- Wide operating temperature range
- Available in 2x5, 2x7 or 2x10. 2x7 and 2x10 incorporate digital diagnostics



## Finisar’s Digital Diagnostics

Finisar’s transceivers feature a microprocessor and diagnostics interface that provide performance information on the data link. Users can remotely monitor—in real-time—received optical power, transmitted optical power, laser bias current, transceiver input voltage and transceiver temperature of any transceiver in the network. These patented digital diagnostic functions provide network managers with a highly accurate, cost-effective tool for implementing reliable performance monitoring.

## Finisar’s Connectivity Diagnostics

Several of Finisar’s products feature the Connectivity Diagnostics® suite of tools, which helps data center technicians quickly and intuitively find specific modules in a sea of sockets using a visual indicator. LynkFind™ allows an operator to light up the pull-tab of the module at the far-end of a link by pressing the pull-tab of the near-end module. LynkGuardian™ lights up the modules at both ends of a link when either module experiences a fault. LynkCommander™ allows a network operations center to light up a module for easy identification on the data center floor. Together, these patented tools bring the intelligence normally available through data center monitoring software to a simple and intuitive visual indicator. The benefits to the data center operator enable faster installation and maintenance, easier troubleshooting, and simplified operations.

Technology Innovator.  
Broad Product Portfolio.  
Trusted Partner.



**FINISAR**<sup>®</sup>

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Optical Engines



Coherent



XFP



X2



Endurance



SFF

**FINISAR**

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**CFP/CFP2/CFP4**

|                     |   |              |             |                   |     |            |                      |
|---------------------|---|--------------|-------------|-------------------|-----|------------|----------------------|
| FTLC1141SDNL (CFP4) |   | Duplex SMF   | 1310nm Band | 4x LWDM DFB Laser | PIN | 112 Gb/s   | 10 km                |
| FTLC8221RFNM (CFP2) | ✓ | Parallel MMF | 850nm Band  | 10x VCSEL         | PIN | 103 Gb/s   | 300 m <sup>(2)</sup> |
| FTLC8221SCNM (CFP2) |   | Parallel MMF | 850nm Band  | 10x VCSEL         | PIN | 112 Gb/s   | 100 m <sup>(2)</sup> |
| FTLC1122RDNL (CFP2) |   | Duplex SMF   | 1310nm Band | 4x LWDM DFB Laser | PIN | 103.1 Gb/s | 10 km                |
| FTLC1122SDNL (CFP2) |   | Duplex SMF   | 1310nm Band | 4x LWDM DFB Laser | PIN | 112 Gb/s   | 10 km                |
| FTLC8281RCNM (CFP)  |   | Parallel MMF | 850nm Band  | VCSEL             | PIN | 103.1 Gb/s | 100 m <sup>(1)</sup> |
| FTLC8281SCNM (CFP)  |   | Parallel MMF | 850nm Band  | 10x VCSEL         | PIN | 112 Gb/s   | 100 m <sup>(1)</sup> |
| FTLC1183RDNx (CFP)  | ✓ | Duplex SMF   | 1310nm Band | 4x LWDM DFB Laser | PIN | 103.1 Gb/s | 10 km                |
| FTLC1183SDNx (CFP)  | ✓ | Duplex SMF   | 1310nm Band | 4x LWDM DFB Laser | PIN | 112 Gb/s   | 10 km                |

**QSFP+/QSFP28**

| Part Number                          | Angle Select | Media Type     | Wavelength (nm) | Transmitter       | Receiver | Data Rate (Gb/s) | Reach                     |
|--------------------------------------|--------------|----------------|-----------------|-------------------|----------|------------------|---------------------------|
| FTL4100E4C (QSFP+)                   |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 41.2 Gb/s        | 100 m                     |
| FTL4100D4C (QSFP+)                   |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 41.2 Gb/s        | 300 m                     |
| FTL4100E2N (QSFP+)                   |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 41.2 Gb/s        | 100 m                     |
| FTL4140B2C (QSFP+)                   |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 56 Gb/s          | 60 m                      |
| FTL4C2QE2C (QSFP+)                   |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 41.2 Gb/s        | 160 m                     |
| FTL4C3QE2C (QSFP+)                   |              | Duplex SMF/MMF | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 41.2 Gb/s        | 1 km                      |
| FTL4S1QE1C (QSFP+)                   |              | Duplex MMF     | 850nm Band      | 4x SWDM VCSEL     | PIN      | 41.2 Gb/s        | 240 m <sup>(1)</sup>      |
| FTL4C1QL2C (QSFP+) <sup>(5)</sup>    |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 41.2 Gb/s        | 2 km                      |
| FTL4C1QE2C (QSFP+) <sup>(5)</sup>    |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 41.2 Gb/s        | 10 km                     |
| FTL4C1QM2C (QSFP+)                   |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 44.6 Gb/s        | 10 km                     |
| FTL4E1QE1C (QSFP+)                   |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | APD      | 41.2 Gb/s        | 40 km                     |
| FTL4E1QM1C (QSFP+)                   |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | APD      | 44.6 Gb/s        | 40 km                     |
| FTLC9152RGL6 (QSFP28) <sup>(3)</sup> |              | Duplex MMF     | 850nm Band      | 4x SWDM VCSEL     | PIN      | 103.1 Gb/s       | 100 m                     |
| FTLC9551REPM (QSFP28) <sup>(3)</sup> |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 103.1 Gb/s       | 100 m <sup>(3)</sup>      |
| FTLC9551SEPM (QSFP28)                |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 112.2 Gb/s       | 100 m <sup>(3)</sup>      |
| FTLC9554REPM (QSFP28)                |              | Parallel MMF   | 850nm Band      | 4x VCSEL          | PIN      | 103.1 Gb/s       | 30/50/70 m <sup>(4)</sup> |
| FTLC1152RGL6 (QSFP28)                |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 103.1 Gb/s       | 2 km                      |
| FTLC1152RGL6 (QSFP28)                |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 103.1 Gb/s       | 500 m                     |
| FTLC1152WGL6 (QSFP28)                |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 103.1 Gb/s       | 10 km                     |
| FTLC1152RGLA (QSFP28)                |              | Duplex SMF     | 1310nm Band     | 4x CWDM DFB Laser | PIN      | 103.1 Gb/s       | 10 km                     |
| FTLC1151RDPL (QSFP28)                |              | Duplex SMF     | 1310nm Band     | 4x LWDM DFB Laser | PIN      | 103.1 Gb/s       | 10 km                     |
| FTLC1151SDPL (QSFP28)                |              | Duplex SMF     | 1310nm Band     | 4x LWDM DFB Laser | PIN      | 112.2 Gb/s       | 10 km                     |

**CXP**

|            |  |              |            |           |     |            |                      |
|------------|--|--------------|------------|-----------|-----|------------|----------------------|
| FTLD10CE1C |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 126 Gb/s   | 100 m <sup>(1)</sup> |
| FTLD10CE3C |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 135.6 Gb/s | 100 m <sup>(1)</sup> |
| FTLD10CD3C |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 135.6 Gb/s | 300 m <sup>(1)</sup> |
| FTLD12CL3C |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 150 Gb/s   | 100 m <sup>(1)</sup> |

**Active Optical Cables**

|  |  |                     |            |           |     |            |       |
|--|--|---------------------|------------|-----------|-----|------------|-------|
| SFPwire (10G SFP+ based AOC)                 |  | Duplex MMF          | 850nm Band | VCSEL     | PIN | 10.3 Gb/s  | 30 m  |
| SFPwire (25G SFP+ based AOC)                 |  | Duplex MMF          | 850nm Band | VCSEL     | PIN | 25.78 Gb/s | 30 m  |
| Quadwire (40G QSFP-based AOC)                |  | Parallel MMF        | 850nm Band | 4x VCSEL  | PIN | 42 Gb/s    | 300 m |
| Quadwire Fanout (40G QSFP to 4xSFP+ AOC)     |  | Duplex/Parallel MMF | 850nm Band | 4x VCSEL  | PIN | 42 Gb/s    | 30 m  |
| Quadwire (56G QSFP-based AOC)                |  | Parallel MMF        | 850nm Band | 4x VCSEL  | PIN | 56 Gb/s    | 100 m |
| Quadwire (100G QSFP28-based AOC)             |  | Parallel MMF        | 850nm Band | 4x VCSEL  | PIN | 112 Gb/s   | 100 m |
| Quadwire Fanout (100G QSFP28 to 4xSFP28 AOC) |  | Parallel MMF        | 850nm Band | 4x VCSEL  | PIN | 112 Gb/s   | 100 m |
| C.wire (CXP-based AOC)                       |  | Parallel MMF        | 850nm Band | 12x VCSEL | PIN | 150 Gb/s   | 100 m |

**Optical Engines**

|                                |  |              |            |           |     |                |       |
|--------------------------------|--|--------------|------------|-----------|-----|----------------|-------|
| FBOTD10SL1C00 (with heatsink)  |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 12 x 11.3 Gb/s | 100 m |
| FBOTD10FL1C00 (flat-top)       |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 12 x 11.3 Gb/s | 100 m |
| FBOTD25FL3C00 (Finisar pinout) |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 12 x 25 Gb/s   | 70 m  |
| FBOTD25MT3C00 (MBOM pinout)    |  | Parallel MMF | 850nm Band | 12x VCSEL | PIN | 12 x 25 Gb/s   | 70 m  |

**Coherent**

|                         |  |            |                     |                       |          |          |          |
|-------------------------|--|------------|---------------------|-----------------------|----------|----------|----------|
| FTLC3321x3NL (CFP2-ACO) |  | Duplex SMF | C-Band DWDM Tunable | Tunable DP-QPSK/16QAM | Coherent | 256 Gb/s | 2,000 km |
|-------------------------|--|------------|---------------------|-----------------------|----------|----------|----------|

**XFP**

|                |  |            |                     |                             |     |           |                      |
|----------------|--|------------|---------------------|-----------------------------|-----|-----------|----------------------|
| FTLX8512D3BCL  |  | Duplex MMF | 850nm Band          | VCSEL                       | PIN | 10.5 Gb/s | 300 m <sup>(1)</sup> |
| FTLX8512D3BTL  |  | Duplex MMF | 850nm Band          | VCSEL                       | PIN | 10.5 Gb/s | 300 m <sup>(1)</sup> |
| FTLX1413D3BCL  |  | Duplex SMF | 1310nm Band         | DFB Laser                   | PIN | 10.5 Gb/s | 10 km                |
| FTLX1413D3BTL  |  | Duplex SMF | 1310nm Band         | DFB Laser                   | PIN | 11.3 Gb/s | 10 km                |
| FTLX1413M3BCL  |  | Duplex SMF | 1310nm Band         | DFB Laser                   | PIN | 11.3 Gb/s | 10 km                |
| FTLX1413M3BTL  |  | Duplex SMF | 1310nm Band         | DFB Laser                   | PIN | 11.3 Gb/s | 10 km                |
| FTLX1612M3BCL  |  | Duplex SMF | 1550nm              | EML                         | PIN | 11.3 Gb/s | 40 km                |
| FTLX1612M3BTL  |  | Duplex SMF | 1550nm              | EML                         | PIN | 11.3 Gb/s | 40 km                |
| FTLX1812M3BCL  |  | Duplex SMF | 1550nm              | EML                         | APD | 11.3 Gb/s | 80 km                |
| FTLX1812M3BTL  |  | Duplex SMF | 1550nm              | EML                         | APD | 11.3 Gb/s | 80 km                |
| FTLX3613M3xxx  |  | Duplex SMF | C-Band DWDM Fixed   | DWDM EML                    | PIN | 11.3 Gb/s | 40 km                |
| FTLX3912M3xxx  |  | Duplex SMF | C-Band DWDM Fixed   | DWDM EML                    | APD | 11.3 Gb/s | 40 km                |
| FTLX3813F3xxx  |  | Duplex SMF | C-Band DWDM Fixed   | DWDM EML                    | APD | 8.8 Gb/s  | 80 km                |
| FTLX3813M3xxx  |  | Duplex SMF | C-Band DWDM Fixed   | DWDM EML                    | APD | 11.3 Gb/s | 80 km                |
| FTLX3815M3xxx  |  | Duplex SMF | C-Band DWDM Fixed   | Tunable + InP MZM           | APD | 11.3 Gb/s | 80 km                |
| FTLX4213M3BCL  |  | Duplex SMF | 1550nm              | CML™                        | APD | 10.5 Gb/s | 120 km               |
| FTLX4213xxxxxx |  | Duplex SMF | C/L-Band DWDM Fixed | CML™                        | APD | 11.3 Gb/s | 200 km               |
| FTLX6624MCC    |  | Duplex SMF | C-Band DWDM Tunable | Tunable + InP MZM           | PIN | 11.3 Gb/s | 40 km                |
| FTLX6824MCC    |  | Duplex SMF | C-Band DWDM Tunable | Tunable + InP MZM           | APD | 11.3 Gb/s | 80 km                |
| FTLX6824MNC    |  | Duplex SMF | C-Band DWDM Tunable | Tunable + InP MZM           | APD | 11.3 Gb/s | 80 km                |
| FTLX6825MCC    |  | Duplex SMF | C-Band DWDM Tunable | Tunable + InP MZM, High Pwr | APD | 11.3 Gb/s | 80 km                |

**Endurance X2**

|            |   |            |             |           |     |             |                      |
|------------|---|------------|-------------|-----------|-----|-------------|----------------------|
| FTLX8541E2 |   | Duplex SMF | 850nm Band  | VCSEL     | PIN | 10.3 Gb/s   | 300 m <sup>(1)</sup> |
| FTLX1442E2 |   | Duplex MMF | 1310nm Band | DFB Laser | PIN | 10.3 Gb/s   | 10 km                |
| FTE85xxxx  | ✓ | Duplex MMF | 850nm Band  | VCSEL     | PIN | 14.025 Gb/s | 550 m                |
| FTE14xxxx  | ✓ | Duplex SMF | 1310nm Band | DFB Laser | PIN | 10 Gb/s     | 10 km                |

**SFF**

|               |   |            |             |                   |     |            |       |
|---------------|---|------------|-------------|-------------------|-----|------------|-------|
| FTLF8519F2xCL |   | Duplex MMF | 850nm Band  | VCSEL             | PIN | 2.125 Gb/s | 550 m |
| FTLF8519F2xNL |   | Duplex MMF | 850nm Band  | VCSEL             | PIN | 2.125 Gb/s | 550 m |
| FTLF8519F2xTL |   | Duplex MMF | 850nm Band  | VCSEL             | PIN | 2.125 Gb/s | 550 m |
| FTLF8524E2xNV | ✓ | Duplex MMF | 850nm Band  | VCSEL             | PIN | 4.25 Gb/s  | 550 m |
| FTLF1319F1xTL |   | Duplex SMF | 1310nm Band | Fabry-Perot Laser | PIN | 2.125 Gb/s | 10 km |
| FTLF1321S1xTL |   | Duplex SMF | 1310nm Band | Fabry-Perot Laser | PIN | 2.67 Gb/s  | 2 km  |
| FTLF1421S1xCL |   | Duplex SMF | 1310nm Band | DFB Laser         | PIN | 2.67 Gb/s  | 15 km |
| FTLF1721S1xCL |   | Duplex SMF | 1310nm Band | DFB Laser         | APD | 2.67 Gb/s  | 40 km |
| FTLF1621S1xCL |   | Duplex SMF | 1550nm      | DFB Laser         | APD | 2.67 Gb/s  | 80 km |
| FTLF1323F2xTR |   | Duplex SMF | 1310nm Band | Fabry-Perot Laser | PIN | 155 Mb/s   | 15 km |
| FTLF1322F2xTR |   | Duplex SMF | 1310nm Band | Fabry-Perot Laser | PIN | 622 Mb/s   | 15 km |

<sup>(1)</sup> Using OM3 multimode fiber. <sup>(2)</sup> Extended case temperature ranges and reaches are available upon request. <sup>(3)</sup> 100m using OM4 multimode fiber and FEC. <sup>(4)</sup> 30m/50m/70m OM3 MMF

## X-ON Electronics

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