### 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

### 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)

### 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

### 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.

---

*SFPwire, quadwire, and C.wire are trade marks of Brocade Communications Systems, Inc.*
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.
<table>
<thead>
<tr>
<th>SFF</th>
<th>X2</th>
<th>XFP</th>
<th>CFP</th>
<th>QSFP+/QSFP28</th>
<th>SFP+/SFP28</th>
<th>SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **FTLF1621P1xCL** Duplex SMF 1550nm DFB Laser APD 2.67 Gb/s 80 km - 10 to 70 3.3
- **FTLX3971yTCxx** (2)
- **FTLX6875MCC** Duplex SMF C-Band DWDM Tunable Tunable + InP MZM, High Pwr Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTLF1318P3xTL** Duplex SMF 1310nm Band Fabry-Perot Laser PIN 1.25 Gb/s 10 km - 40 to 85 3.3
- **FTLX8574D3BxL**
- **FTLF1370W4BTL** Duplex SMF 1310nm Band Fabry-Perot Laser PIN 9.830 Gb/s 1.4 km - 40 to 85 3.3
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km - 5 to 70 3.3
- **FTLC9141SENM (CFP4)** Parallel MMF 850nm Band 4x VCSEL PIN 112 Gb/s 100 m
- **FTL4C1QE2C (QSFP+)**
- **FTLX6871MCC**  Duplex SMF C-Band DWDM Tunable Tunable + InP MZM Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTL410QE2N (QSFP+)** Parallel MMF 850nm Band 4x VCSEL PIN 41.2 Gb/s 100 m -5 to 85 3.3
- **FTL4E1QE1C (QSFP+)** Duplex SMF 1310nm Band 4x CWDM DFB Laser APD 41.2 Gb/s 40 km 0 to 70 3.3
- **FTLC1122SDNL (CFP2)** Duplex SMF 1310nm Band 4x LWDM DFB Laser PIN 112 Gb/s 10 km 0 to 70 3.3
- **FTLC8281RCNM (CFP)** Parallel MMF 850nm Band VCSEL PIN  103.1 Gb/s 100 m
- **FTLC9141SENM (CFP4)**
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km 0 to 70 3.3
- **FTL4C1QE2C (QSFP+)**
- **FTLX6871MCC**  Duplex SMF C-Band DWDM Tunable Tunable + InP MZM Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTL410QE2N (QSFP+)** Parallel MMF 850nm Band 4x VCSEL PIN 41.2 Gb/s 100 m -5 to 85 3.3
- **FTL4E1QE1C (QSFP+)** Duplex SMF 1310nm Band 4x CWDM DFB Laser APD 41.2 Gb/s 40 km 0 to 70 3.3
- **FTLC1122SDNL (CFP2)** Duplex SMF 1310nm Band 4x LWDM DFB Laser PIN 112 Gb/s 10 km 0 to 70 3.3
- **FTLC8281RCNM (CFP)** Parallel MMF 850nm Band VCSEL PIN  103.1 Gb/s 100 m
- **FTLC9141SENM (CFP4)**
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km 0 to 70 3.3
- **FTL4C1QE2C (QSFP+)**
- **FTLX6871MCC**  Duplex SMF C-Band DWDM Tunable Tunable + InP MZM Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTL410QE2N (QSFP+)** Parallel MMF 850nm Band 4x VCSEL PIN 41.2 Gb/s 100 m -5 to 85 3.3
- **FTL4E1QE1C (QSFP+)** Duplex SMF 1310nm Band 4x CWDM DFB Laser APD 41.2 Gb/s 40 km 0 to 70 3.3
- **FTLC1122SDNL (CFP2)** Duplex SMF 1310nm Band 4x LWDM DFB Laser PIN 112 Gb/s 10 km 0 to 70 3.3
- **FTLC8281RCNM (CFP)** Parallel MMF 850nm Band VCSEL PIN  103.1 Gb/s 100 m
- **FTLC9141SENM (CFP4)**
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km 0 to 70 3.3
- **FTL4C1QE2C (QSFP+)**
- **FTLX6871MCC**  Duplex SMF C-Band DWDM Tunable Tunable + InP MZM Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTL410QE2N (QSFP+)** Parallel MMF 850nm Band 4x VCSEL PIN 41.2 Gb/s 100 m -5 to 85 3.3
- **FTL4E1QE1C (QSFP+)** Duplex SMF 1310nm Band 4x CWDM DFB Laser APD 41.2 Gb/s 40 km 0 to 70 3.3
- **FTLC1122SDNL (CFP2)** Duplex SMF 1310nm Band 4x LWDM DFB Laser PIN 112 Gb/s 10 km 0 to 70 3.3
- **FTLC8281RCNM (CFP)** Parallel MMF 850nm Band VCSEL PIN  103.1 Gb/s 100 m
- **FTLC9141SENM (CFP4)**
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km 0 to 70 3.3
- **FTL4C1QE2C (QSFP+)**
- **FTLX6871MCC**  Duplex SMF C-Band DWDM Tunable Tunable + InP MZM Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTL410QE2N (QSFP+)** Parallel MMF 850nm Band 4x VCSEL PIN 41.2 Gb/s 100 m -5 to 85 3.3
- **FTL4E1QE1C (QSFP+)** Duplex SMF 1310nm Band 4x CWDM DFB Laser APD 41.2 Gb/s 40 km 0 to 70 3.3
- **FTLC1122SDNL (CFP2)** Duplex SMF 1310nm Band 4x LWDM DFB Laser PIN 112 Gb/s 10 km 0 to 70 3.3
- **FTLC8281RCNM (CFP)** Parallel MMF 850nm Band VCSEL PIN  103.1 Gb/s 100 m
- **FTLC9141SENM (CFP4)**
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km 0 to 70 3.3
- **FTL4C1QE2C (QSFP+)**
- **FTLX6871MCC**  Duplex SMF C-Band DWDM Tunable Tunable + InP MZM Linear APD 11.3 Gb/s 80 km - 5 to 70 3.3
- **FTL410QE2N (QSFP+)** Parallel MMF 850nm Band 4x VCSEL PIN 41.2 Gb/s 100 m -5 to 85 3.3
- **FTL4E1QE1C (QSFP+)** Duplex SMF 1310nm Band 4x CWDM DFB Laser APD 41.2 Gb/s 40 km 0 to 70 3.3
- **FTLC1122SDNL (CFP2)** Duplex SMF 1310nm Band 4x LWDM DFB Laser PIN 112 Gb/s 10 km 0 to 70 3.3
- **FTLC8281RCNM (CFP)** Parallel MMF 850nm Band VCSEL PIN  103.1 Gb/s 100 m
- **FTLC9141SENM (CFP4)**
- **FTLX2471DC0xx** Duplex SMF 1310nm Band CWDM DFB Laser PIN 10.5 Gb/s 10 km 0 to 70 3.3