Finisar® 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

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**SFP+/SFP28/SFP56** (optical; longwave, shortwave, DWDM and tunable)

**DATACOM** applications using 1G, 25G, and 50G 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 53.1 Gb/s (LW, SW), 28.05 Gb/s (DWDM) and 11.3 Gb/s (Tunable)
- Distances from short links up to 80km 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

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**CFP/CFP2/CFP4** (optical; longwave and shortwave)

**DATACOM** applications using 100G Ethernet

**TELECOM** applications using OTU4

**FEATURES**
- Hot-pluggable, MSA-compliant CFP, CFP2, and CFP4 form factors
- Supports 103.1 Gb/s to 112 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

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**QSFP+/QSFP28/QSFP56** (optical; longwave and shortwave)

**DATACOM** applications using 40G, 100G, and 200G Ethernet and high-density 10G, 25G, and 50G Ethernet

**TELECOM** applications using OTU3 and OTU4

**FEATURES**
- Four-channel full duplex transceiver module
- Single-channel full duplex transceiver module (QSFP28 only)
- Hot-pluggable, MSA-compliant QSFP+, QSFP28 and QSFP56 form factors
- Maximum link length of 300m on OM3 MMF, 400m on OM4/OM5 MMF, and 40km on SMF (QSFP+ only)
- 3.3 V operating voltage
- Digital diagnostics
- Wireless CPRI compliant (LW and SW)
- I-Temp variants available

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**QSFP-DD** (optical; longwave and shortwave)

**DATACOM** applications using 400G Ethernet and high-density 50G and 100G Ethernet

**FEATURES**
- Four- or eight-channel full duplex transceiver module
- Hot-pluggable, MSA-compliant QSFP-DD form factor
- Maximum link length of 70m on OM3 MMF, 100m on OM4 MMF, and 10 km on SMF
- 3.3 V operating voltage
- Digital diagnostics

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**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
**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

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**Active Optical Cables**

**SFPwire**

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

**quadwire**

Finisar 40 Gb/s to 400 Gb/s Parallel Active Optical Cable for 40, 100 and 400 Gigabit Ethernet; InfiniBand™ QDR, FDR, EDR, HDR and NDR; and Intel® Omni-Path Architecture. 40G also available with Connectivity Diagnostics® visual fault alert

**C.wire**

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

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**Coherent Transceivers** (optical; longwave)

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

**FEATURES**
- Pluggable CFP2-ACO and CFP4-ACO analog coherent optics modules
- 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

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**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

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

**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**
- 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

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**Digital Diagnostics**

Our Finisar® 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.
About II-VI

II-VI Incorporated, a global leader in engineered materials and optoelectronic components, is a vertically integrated manufacturing company that develops innovative products for diversified applications in communications, materials processing, aerospace & defense, semiconductor capital equipment, life sciences, consumer electronics, and automotive markets. Headquartered in Saxonburg, Pennsylvania, the Company has research and development, manufacturing, sales, service, and distribution facilities worldwide. The Company produces a wide variety of application-specific photonic and electronic materials and components, and deploys them in various forms, including integrated with advanced software to support our customers. For more information, please visit us at www.ii-vi.com.
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† Using OM3 multimode fiber.