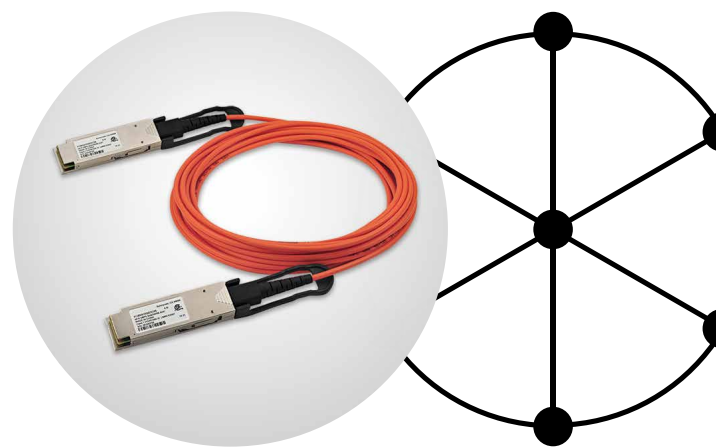
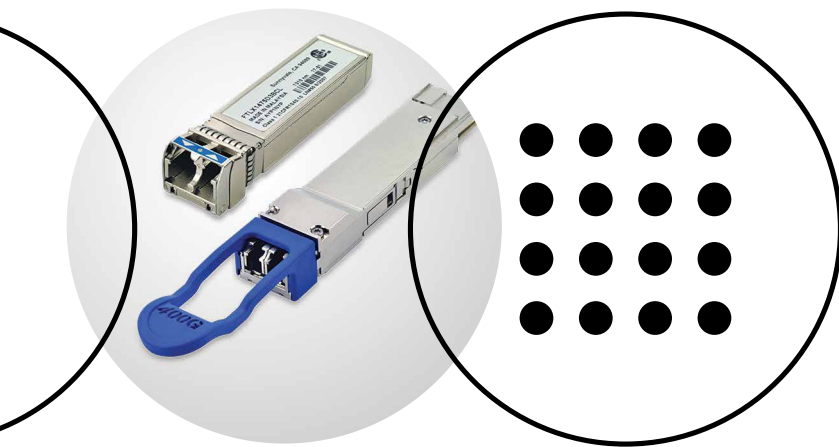


FINISAR® TRANSCEIVERS AND COMMUNICATION CABLES



FINISAR® TRANSCEIVERS AND COMMUNICATION 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, and Wireless/CPRI across all reaches

Features

- 3.3 V operating voltage
- Distances from very short links up to 90 km
- Wide operating temperature range
- Metal enclosure for lower EMI
- Digital diagnostics
- Wireless CPRI compliant



SFP+/SFP28/SFP56

(optical; longwave, shortwave, DWDM and tunable)

Datacom applications using 10G, 25G, and 50G Ethernet and 2x/4x/8x/10x/16x/32x/64x 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 57.8 Gb/s (LW, SW), 28.05 Gb/s (DWDM) and 25.78Gb/s (Tunable)
- Distances from short links up to 80 km LW, SW, DWDM (tunable and fixed)
- Wide operating temperature range
- Digital diagnostics
- Wireless CPRI compliant (LW and SW)
- Bi-directional SFP+ transceiver available



CFP/CFP2/CFP4

(optical; longwave)

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 10 km on SMF
- 3.3 V operating voltage



QSFP+/QSFP28/QSFP56

(optical; longwave, shortwave, and DWDM)

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 300 m on OM3 MMF, 400 m on OM4/OM5 MMF, and 40 km on SMF (QSFP+ only)
- 3.3 V operating voltage
- Digital diagnostics
- Wireless CPRI compliant (LW and SW)
- I-Temp variants available



QSFP-DD/OSFP (optical; longwave and shortwave)

Datacom applications using 200G, 400G, and 800G Ethernet and high-density 25G, 50G, and 100G Ethernet

Features

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



CXP (optical; shortwave)

Datacom applications for high-bandwidth, chassis interconnections

Features

- Twelve-channel full-duplex transceiver module
- Hot Pluggable CXP form factor
- Maximum link length of 300 m on OM3 MMF and 400 m on OM4 MMF
- Multi-rate Capability: Supports 1 Gb/s to 16 Gb/s per channel

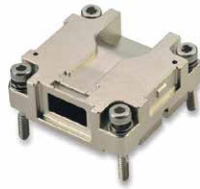


Optical Engines (optical; shortwave)

Datacom applications for inter-chassis connections

Features

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



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



Coherent Transceivers (optical; longwave)

Telecom 100 Gb/s, 200 Gb/s, and 400 Gb/s applications

Features

- Digital Coherent Optics (with built-in Digital Signal Processor) and Analog Coherent Optics (paired with external DSP) modules
- Enables “pay-as-you-grow” deployment of coherent optics
- Supports multiple modulation formats, with aggregate data rates up to > 400 Gb/s



Communications Cables

SFPwire®

10G and 25G Active Optical Cables (AOC) and Direct Attach Cables (DAC) for Ethernet; AOCs available with Connectivity Diagnostics® visual fault alert

quodwire®

40G/100G/400G/800G Active Optical Cables (AOC) for Ethernet; 100G/400G Direct Attach Cables (DAC) for Ethernet; InfiniBand™ AOCs for QDR/FDR/EDR/HDR/NDR; AOCs for SAS3 and PCIe3; 40G and 56G AOCs available with Connectivity Diagnostics® visual fault alert



C.wire®

120G to 200G Active Optical Cables for Ethernet and InfiniBand 12xQDR

SFF (optical; longwave and shortwave)

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

Telecom applications using OC-3/STM-1, and OC-48/STM-16 across all reaches

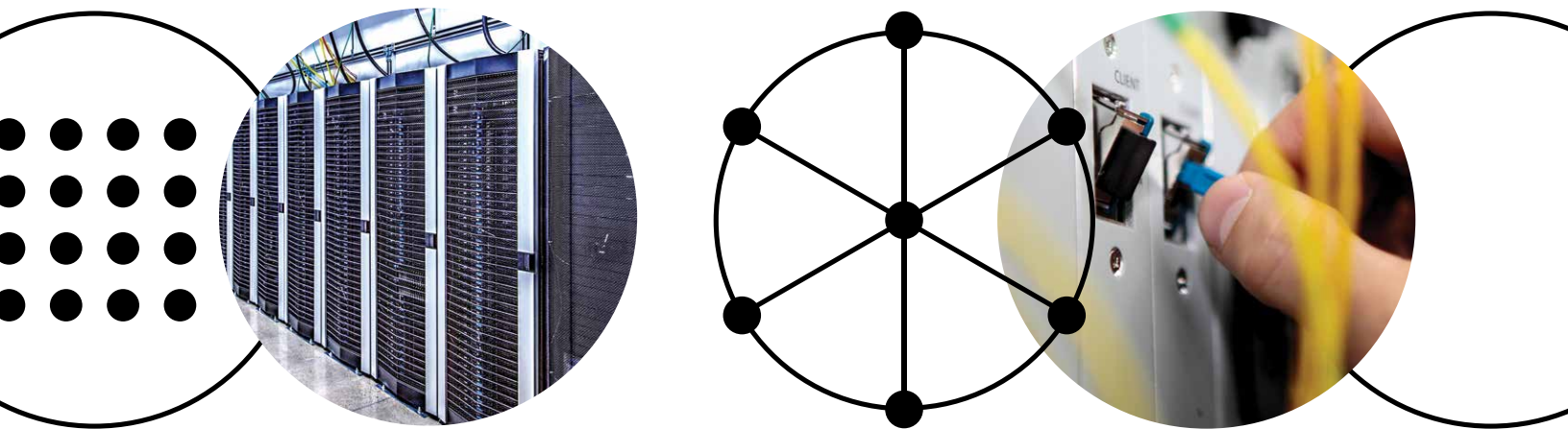
Features

- Distances from very short links up to 15 km
- Wide operating temperature range
- Available in 2x5, 2x7 or 2x10; 2x7 and 2x10 incorporate digital diagnostics



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.



	Part Number	Rate Select	Media Type	Wavelength (nm)	Transmitter	Receiver	Data Rate (max.)	Reach	Case Temp. Range (°C)	Ethernet	Fibre Channel	SONET	OTN	InfiniBand	CPRI ¹	Connector
SFP	FCLF852xP2BTL		Copper	N/A	N/A	N/A	1.25 Gb/s	100 m	-40 to 85	1000BASE-T						RJ-45
	FCLF852xP2BCL		Copper	N/A	N/A	N/A	1.25 Gb/s	100 m	0 to 70	1000BASE-T						RJ-45
	FTLF8519P3xNL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	-20 to 85	1G SX/FE	2x/1x				2	LC
	FTLF8519P3xTL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	-40 to 85	1G SX/FE	2x/1x				2	LC
	FTLF8526P3BNL	●	Duplex MMF	850nm Band	VCSEL	PIN	6.1 Gb/s	150 m ⁽¹⁾	-40 to 85				OC-3		5	LC
	FTLF1217P2xTL		Duplex MMF	1310nm Band	LED	PIN	200 Mb/s	2 km	-40 to 85	FE						LC
	FTLF1318P3xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	1.25 Gb/s	10 km	-40 to 85	1G LX	1x				2	LC
	FTLF1518P1xTL		Duplex SMF	1550nm	DFB Laser	PIN	1.25 Gb/s	90 km	-40 to 85	1G LX	1x				2	LC
	FTLF1519P1xCL		Duplex SMF	1550nm	DFB Laser	PIN	2.125 Gb/s	90 km	-10 to 70	1G LX	2x/1x				2	LC
	FTLF1519P1xNL		Duplex SMF	1550nm	DFB Laser	PIN	2.125 Gb/s	90 km	-5 to 85	1G LX	2x/1x				2	LC
	FTLF1323P1xTR		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	155 Mb/s	15 km	-40 to 85	FE			OC-3			LC
	FTLF1323P1xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	155 Mb/s	40 km	-40 to 85	FE			OC-3			LC
	FTLF1322P1xTR		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	622 Mb/s	15 km	-40 to 85				OC-3/OC-12		1	LC
	FTLF1321P1xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	2.67 Gb/s	2 km	-40 to 85	1G SX/FE	2x/1x		OC3/OC-12/OC-48		3	LC
	FWLF16217D-xx ⁽²⁾		Duplex SMF	1550nm CWDM	CWDM DFB Laser	APD	2.67 Gb/s	80 km	0 to 70	1G SX/FE	2x/1x		OC3/OC-12/OC-48		3	LC
	FTLF8524P3xNL		Duplex MMF	850nm Band	VCSEL	PIN	3.7 Gb/s	300 m	-40 to 85	1G LX	2x/1x				4	LC
SFP+ SFP28 SFP56	FTLF8528P3BxV	●	Duplex MMF	850nm Band	VCSEL	PIN	8.5 Gb/s	150 m(1)	-5 to 85		8x/4x/2x/1x					LC
	FTLX8574D3BxL(5)		Duplex MMF	850nm Band	VCSEL	PIN	10.5 Gb/s	300 m(1)	-40 to 85	10G SR	10x				8	LC
	FTLX8574D3BxV(5)	●	Duplex MMF	850nm Band	VCSEL	PIN	10.3 Gb/s	300 m(1)	-5 to 85	10G SR/1G SX					8	LC
	FTLX1370W4BTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	10.3 Gb/s	1.4 km	-40 to 85						8	LC
	FTLX1475D3BxV(5)	●	Duplex SMF	1310nm Band	DFB Laser	PIN	10.3 Gb/s	10 km	-5 to 85	10G LR/1G LX					8	LC
	FTLX1475D3BxL(5)		Duplex SMF	1310nm Band	DFB Laser	PIN	10.5 Gb/s	10 km	-40 to 85	10G LR	10x				8	LC
	FTLX2072D3xx (Bidirectional)		Single SMF	Bidi 1271nm/1331nm	DFB Laser	PIN	10.5 Gb/s	10 km	-40 to 85	10G LR	10x				8	LC
	FTLX2672D3xx (Bidirectional)		Single SMF	Bidi 1271nm/1331nm	DFB Laser	PIN	10.5 Gb/s	20/30 km	-40 to 85	10G LR	10x				8	LC
	FTLF1672y3BxL(5)	●	Duplex SMF	1550nm	EML	PIN	11.3 Gb/s	40 km	-40 to 85	10G ER/1G LX	10x/8x/4x/2x/1x		OC-192		8	LC
	FTLF1871y3BxL(5)	●	Duplex SMF	1550nm	EML	APD	11.3 Gb/s	80 km	-5 to 85	10G ZR	10x/8x		OC-192		8	LC
	FTLX6672MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	PIN	11.3 Gb/s	40 km	-5 to 70	10G ZR	10x/8x		OC-192		8	LC
	FTLX6673MCC		Duplex SMF	C-Band DWDM Tunable (100GHz)	Tunable + InP MZM	PIN	11.3 Gb/s	40 km	-5 to 70	10G ER	10x/8x		OC-192		8	LC
	FTLX6682MxC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Limiting PIN	11.3 Gb/s	40 km	-40 to 85	10G ZR	10x/8x		OC-192		8	LC
	FTLX6872MxC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Limiting APD	11.3 Gb/s	80 km	-40 to 85	10G ZR	10x/8x		OC-192		8	LC
	FTLX6873MxC		Duplex SMF	C-Band DWDM Tunable (100GHz)	Tunable + InP MZM	Limiting APD	11.3 Gb/s	80 km	-40 to 85	10G ZR	10x/8x		OC-192		8	LC
	FTLX6875MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM, High Pwr	Limiting APD	11.3 Gb/s	80 km	-5 to 70	10G ZR	10x/8x		OC-192		8	LC
	FTLX6882MxC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Limiting APD	11.3 Gb/s	80 km	-40 to 85	10G ZR	10x/8x		OC-192		8	LC
	FTLF8529P5Bxv(5)	●	Duplex SMF	850nm Band	VCSEL	PIN	14.025 Gb/s	100 m	0 to 85		16x/8x/4x					LC
	FTLF1429P3Bxv(5)	●	Duplex SMF	1310nm Band	DFB Laser	PIN	14.025 Gb/s	10 km	-5 to 85		16x/8x/4x					LC
	FTLF1429P3BCE	●	Duplex SMF	1310nm Band	DFB Laser	PIN	14.025 Gb/s	25 km	0 to 70		16x/8x/4x					LC
	FTLF8536P5BxC	●	Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	100 m	0 to 70	25G SR						LC
	FTLF8536P5BNx	●	Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	100 m	0 to 85	25G SR/10G SR					10	LC
	FTLF8536W4BTV	●	Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	100 m	-40 to 85	25G SR/10G SR					10	LC
	FTLF8539P5BCL	●	Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	30/50/70 m(4)	0 to 70	25G SR						LC
	FTLF8540P4BCV	●	Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	300 m	0 to 70	25G eSR/25G SR						LC
	FTLF1436W5BTD	●	Duplex SMF	1310nm Band	DFB Laser	PIN	25.78 Gb/s	300 m	-40 to 85	25G eSR/25G SR/10G SR					10	LC
	FTLF1436W5BTV	●	Duplex SMF	1310nm Band	DFB Laser	PIN	25.78 Gb/s	10 km	-40 to 85	25G LR/10G LR					10	LC
	FTLF3436W4BTVxx	●	Duplex SMF	CWDM 1310nm Band	DFB Laser	PIN	25.78 Gb/s	10 km	-40 to 85	25G LR/10G LR					10	LC
	FTLF6836P1BNL	●	Duplex SMF	C-Band DWDM Tunable (100GHz)	Tunable + InP MZM	Limiting APD	25.78 Gb/s	15 km	-20 to 85	25G LR					10	LC
	FTLF8532P5BxV	●	Duplex MMF	850nm Band	VCSEL	PIN	28.05 Gb/s	100 m	0 to 85		32x/16x/8x					LC
	FTLF1432P3BxV	●	Duplex SMF	1310nm Band	DFB Laser	PIN	28.05 Gb/s	10 km	0 to 85		32x/16x/8x					LC
	FTLF1432P3BCE	●	Duplex SMF	1310nm Band	DFB Laser	PIN	28.05 Gb/s	25 km	0 to 70		16x/10x/8x					LC
	FTLF856D1BCx	●	Duplex MMF	850nm Band	VCSEL	PIN	53.125 Gb/s	100 m	0 to 70	50G SR/25G SR/10G SR						LC
	FTLF8564D1BxW	●	Duplex MMF	850nm Band	VCSEL	PIN	57.8 Gb/s	100 m	0 to 85			64x/32x/16x				LC
	FTF3436W5BNVxx	●	Duplex SMF	CWDM 1310nm Band	DFB Laser	PIN	25.78 Gb/s	10 km	-20 to 85	25G LR/10G LR					10	LC
CFP CFP2 CFP4	FTLC1141RDNL (CFP4)		Duplex SMF	1310nm Band	4x LWDM DFB Laser	PIN	103.1 Gb/s	10 km	0 to 75	100G LR4						