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/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 (optical; longwave and shortwave)

DATACOM applications using 40G and 100G Ethernet

TELECOM applications using OTU3 and OTU4

Features

- Hot-pluggable, MSA-compliant CFP, CFP2 and CFP4 form factors
- Supports 39.8 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


CFP/CFP2/CFP4

QSFP+/QSFP28 (optical; longwave and shortwave)

DATACOM applications using 40G and 100G Ethernet, 128G Fibre Channel 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


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.

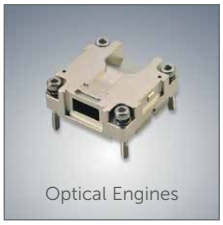

Active Optical Cables

Optical Engines (optical; shortwave)

DATACOM applications for inter-chassis connections

Features

- Twelve-channel full-duplex transceiver modules
- Maximum link length of 100m at 10 Gb/s on OM3 MMF or 70m at 25 Gb/s on OM4 MMF
- Multirate capability: supports 1 Gb/s up to 28.05 Gb/s per channel


Optical Engines

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


X2

Coherent (optical; longwave)

TELECOM 100Gb/s and 200Gb/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 > 200Gb/s


Coherent

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


Endurance

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


XFP

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


SFF

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 a module experiencing a fault and sends alarms and warnings. 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.

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	Part Number	Rate Select	Media Type	Wavelength (nm)	Transmitter	Receiver	Data Rate (max)	Reach	Case Temperature Range (°C)	Voltage Supply (V)	Optical Fast Ethernet	Optical Gigabit Ethernet	1x Fibre Channel	2x Fibre Channel	4x Fibre Channel	8x Fibre Channel	16x Fibre Channel	32x Fibre Channel	SONET OC-3	SONET OC-12	SONET OC-48	SONET OC-192	SONET OC-768	OTN OTU3	OTN OTU4	10x Fibre Channel	10G Ethernet	25G Ethernet	40G Ethernet	100G Ethernet	200G Ethernet	IB QDR	IB FDR	IB EDR	IB SDR	1000BASE-T	PON	Wireless CPRI†	Connector	Module Type	Diagnostics
SFP	FCLF852xP2BTL		Copper	N/A	N/A	N/A	1.25 Gb/s	100 m	- 40 to 85	3.3																										●			RJ-45	Pluggable	N/A
SFP	FTLF8519P3xNL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	- 20 to 85	3.3	■	●	●	●																								●	LC	Pluggable	Digital
SFP	FTLF8519P3xTL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	- 40 to 85	3.3	■	●	●	●																								●	LC	Pluggable	Digital
SFP	FTLF1217P2xTL		Duplex MMF	1310nm Band	LED	PIN	200 Mb/s	2 km	- 40 to 85	3.3	●								■																				LC	Pluggable	Digital
SFP	FTLF1318P3xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	1.25 Gb/s	10 km	- 40 to 85	3.3		●	●																									●	LC	Pluggable	Digital
SFP	FTLF1419P1xCL		Duplex SMF	1310nm Band	DFB Laser	PIN	2.125 Gb/s	55 km	- 10 to 70	3.3		●	●	●																								●	LC	Pluggable	Digital
SFP	FTLF1518P1xTL		Duplex SMF	1550nm	DFB Laser	PIN	1.25 Gb/s	90 km	- 40 to 85	3.3		●	●																									●	LC	Pluggable	Digital
SFP	FTLF1519P1xCL		Duplex SMF	1550nm	DFB Laser	PIN	2.125 Gb/s	90 km	- 10 to 70	3.3		●	●	●																								●	LC	Pluggable	Digital
SFP	FTLF1519P1xNL		Duplex SMF	1550nm	DFB Laser	PIN	2.125 Gb/s	90 km	- 5 to 85	3.3		●	●	●																								●	LC	Pluggable	Digital
SFP	FTLF1619P1xCL		Duplex SMF	1550nm	DFB Laser	APD	2.125 Gb/s	115 km	- 10 to 70	3.3		●	●	●																								●	LC	Pluggable	Digital
SFP	FTLF1323P1xTR		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	155 Mb/s	15 km	- 40 to 85	3.3	■								●																			●	LC	Pluggable	Digital
SFP	FTLF1323P1xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	155 Mb/s	40 km	- 40 to 85	3.3	■								●																			●	LC	Pluggable	Digital
SFP	FTLF1523P1xTL		Duplex SMF	1550nm	DFB Laser	PIN	155 Mb/s	80 km	- 40 to 85	3.3	■								●																			●	LC	Pluggable	Digital
SFP	FTLF1322P1xTR		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	622 Mb/s	15 km	- 40 to 85	3.3									●	●																		●	LC	Pluggable	Digital
SFP	FTLF1422P1xTL		Duplex SMF	1310nm Band	DFB Laser	PIN	622 Mb/s	40 km	- 40 to 85	3.3										●																		●	LC	Pluggable	Digital
SFP	FTLF1522P1xTL		Duplex SMF	1550nm	DFB Laser	PIN	622 Mb/s	80 km	- 40 to 85	3.3										●																		●	LC	Pluggable	Digital
SFP	FTLF1321P1xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	2.67 Gb/s	2 km	- 40 to 85	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FTLF1421P1xCL		Duplex SMF	1310nm Band	DFB Laser	PIN	2.67 Gb/s	15 km	- 10 to 70	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FTLF1421P1xTL		Duplex SMF	1310nm Band	DFB Laser	PIN	2.67 Gb/s	15 km	- 40 to 85	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FTLF1421P1BTL-3G		Duplex SMF	1310nm Band	DFB Laser	PIN	3.07 Gb/s	15 km	- 40 to 85	3.3		■	■	■																								●	LC	Pluggable	Digital
SFP	FTLF1521P1xCL		Duplex SMF	1550nm	DFB Laser	PIN	2.67 Gb/s	15 km	0 to 70	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FTLF1721P1xCL		Duplex SMF	1310nm Band	DFB Laser	APD	2.67 Gb/s	40 km	- 10 to 70	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FTLF1621P1xCL		Duplex SMF	1550nm	DFB Laser	APD	2.67 Gb/s	80 km	- 10 to 70	3.3		●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FWLF1523P1C51 (OSC)		Duplex SMF	1511nm	DFB Laser	PIN	155 Mb/s	80 km	- 20 to 70	3.3	■								■																				LC	Pluggable	Digital
SFP	FWLF1523P1N51 (OSC)		Duplex SMF	1511nm	DFB Laser	PIN	155 Mb/s	80 km	- 20 to 85	3.3	■								■																				LC	Pluggable	Digital
SFP	FWLF15197Dxx[2]		Duplex SMF	1550nm CWDM	CWDM DFB Laser	PIN	1.25 Gb/s	80 km	0 to 70	3.3	■	●	●						■	■																		●	LC	Pluggable	Digital
SFP	FWLF16197D-xx[2]		Duplex SMF	1550nm CWDM	CWDM DFB Laser	APD	1.25 Gb/s	100 km	0 to 70	3.3	■	●	●						■	■																		●	LC	Pluggable	Digital
SFP	FWLF15217Dxx[2]		Duplex SMF	1550nm CWDM	CWDM DFB Laser	PIN	2.67 Gb/s	50 km	0 to 70	3.3	■	●	●	●					■	■	■																	●	LC	Pluggable	Digital
SFP	FWLF16217D-xx[2]		Duplex SMF	1550nm CWDM	CWDM DFB Laser	APD	2.67 Gb/s	80 km	0 to 70	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FWLF1621P2Txx		Duplex SMF	1550nm CWDM	CWDM DFB Laser	APD	2.67 Gb/s	80 km	- 40 to 85	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FWLF1524P2Vxx	✓	Duplex SMF	1550nm CWDM	CWDM DFB Laser	PIN	4.25 Gb/s	40 km	- 5 to 75	3.3		●	●	●	●						●																	●	LC	Pluggable	Digital
SFP	FWFL1625P2Lxx	✓	Duplex SMF	1550nm CWDM	CWDM DFB Laser	APD	4.25 Gb/s	80 km	- 5 to 75	3.3			●	●	●																							●	LC	Pluggable	Digital
SFP	FWLF1632xx[2]		Duplex SMF	C-Band DWDM Fixed	DWDM DFB Laser	APD	2.67 Gb/s	120 km	0 to 70	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FWLF1631Rxx[2]		Duplex SMF	C-Band DWDM Fixed	DWDM DFB Laser	APD	2.67 Gb/s	160 km	-5 to 70	3.3	■	●	●	●					■	■	●																	●	LC	Pluggable	Digital
SFP	FWLF1634RLxx		Duplex SMF	C-Band DWDM Fixed	DWDM DFB Laser	APD	4.25 Gb/s	80 km	- 5 to 70	3.3		■	●	●	●				■	■	■																	●	LC	Pluggable	Digital
SFP	FTEN2x15P1xUN-BC (EPON SFP-ONU)		Duplex SMF	BiDi 1310nm/1490nm	Fabry-Perot Laser	PIN	1.25 Gb/s	10 km	- 30 to 85	3.3																											●		SC	Pluggable	Digital
SFP	FTEN2x17P1xUN-BC (EPON SFP-ONU)		Duplex SMF	BiDi 1310nm/1490nm	DFB Laser	PIN	1.25 Gb/s	20 km+	- 30 to 85	3.3																											●		SC	Pluggable	Digital
SFP	FTGN2117P2TxN (GPON SFP-ONU)		Duplex SMF	BiDi 1310nm/1490nm	DFB Laser	APD	2.5 Gb/s	20 km+	- 40 to 85	3.3																											●		SC	Pluggable	Digital
SFP	FTLF8524P3xNL		Duplex MMF	850nm Band	VCSEL	PIN	3.7 Gb/s	300 m	- 40 to 85	3.3		■	■	■																								●	LC	Pluggable	Digital
SFP+/SFP28	FTLF8526W4BTL		Duplex MMF	850nm Band	VCSEL	PIN	6.144 Gb/s	300 m[1]	- 40 to 85	3.3																												●	LC	Pluggable	Digital
SFP+/SFP28	FTLF1326P3BTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	6.144 Gb/s	2 km	- 40 to 85	3.3																												●	LC	Pluggable	Digital
SFP+/SFP28	FTLF1426P2BTL		Duplex SMF	1310nm Band	DFB Laser	PIN	6.144 Gb/s	10/15 km	- 40 to 85	3.3																												●	LC	Pluggable	Digital
SFP+/SFP28	FTLF8528P3BCV	✓	Duplex MMF	850nm Band	VCSEL	PIN	8.5 Gb/s	150 m[1]	- 5 to 70	3.3			■	●	●	●																							LC	Pluggable	Digital
SFP+/SFP28	FTLF8528P3BNV	✓	Duplex MMF	850nm Band	VCSEL	PIN	8.5 Gb/s	150 m[1]	- 5 to 85	3.3			■	●	●	●																							LC	Pluggable	Digital
SFP+/SFP28	FTLF1428P3BNV	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	8.5 Gb/s	10 km	- 5 to 85	3.3			■	●	●	●																							LC	Pluggable	Digital
SFP+/SFP28	FTLX8574D3BxV[5]	✓	Duplex MMF	850nm Band	VCSEL	PIN	10.3 Gb/s	300 m[1]	-5 to 85	3.3		●															●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX8574D3BxL[5]		Duplex MMF	850nm Band	VCSEL	PIN	10.5 Gb/s	300 m[1]	-5 to 85	3.3																●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX8573D3BTL		Duplex MMF	850nm Band	VCSEL	PIN	10.5 Gb/s	300 m[1]	- 40 to 85	3.3																●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX1371D3BCL		Duplex SMF	1310nm Band	Fabry-Perot Laser	Linear PIN	10.3 Gb/s	220 m[3]	- 5 to 70	3.3																	●												LC	Pluggable	Digital
SFP+/SFP28	FTLX1370W3BTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	9.830 Gb/s	1.4 km	- 40 to 85	3.3																												●	LC	Pluggable	Digital
SFP+/SFP28	FTLX1475D3BxV[5]	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	10.3 Gb/s	10 km	- 5 to 85	3.3		●															●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX1475D3BxL[5]		Duplex SMF	1310nm Band	DFB Laser	PIN	10.5 Gb/s	10 km	- 40 to 85	3.3																●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX1472M3BxL	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	11.3 Gb/s	10 km	- 40 to 85	3.3						●						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX2071D3xx (Bi-Di)		Single SMF	BiDi 1271nm/1331nm	DFB Laser	PIN	10.5 Gb/s	10 km	- 40 to 85	3.3																●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX2471DC0xx		Duplex SMF	1310nm Band	CWDM DFB Laser	PIN	10.5 Gb/s	10 km	- 5 to 70	3.3																●	●												LC	Pluggable	Digital
SFP+/SFP28	FTLX1672y3BxL[5]	✓	Duplex SMF	1550nm	EML	PIN	11.3 Gb/s	40 km	- 40 to 85	3.3		■	■	■	■	●						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX1772M3BCL	✓	Duplex SMF	1310nm Band	DFB Laser	APD	11.3 Gb/s	40 km	- 5 to 75	3.3						■						■				■	■											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX1871y3BxL[5]	✓	Duplex SMF	1550nm	EML	APD	11.3 Gb/s	80 km	- 5 to 85	3.3						●						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX3971yTCxx	✓	Duplex SMF	C-Band DWDM Fixed	DWDM EML	APD	11.3 Gb/s	40 km	-40 to 85	3.3		■	■	■	■	■						■				■	■											■	LC	Pluggable	Digital
SFP+/SFP28	FTLX6871MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Linear APD	11.3 Gb/s	80 km	- 5 to 70	3.3						■						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX6872MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Limiting APD	11.3 Gb/s	80 km	- 5 to 70	3.3						■						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX6672MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	PIN	11.3 Gb/s	40 km	- 5 to 70	3.3						■						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX6871MNC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Linear APD	11.3 Gb/s	80 km	- 5 to 85	3.3						■						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX6872MNC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Linear APD	11.3 Gb/s	80 km	- 5 to 85	3.3						■						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX6875MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	Linear APD	11.3 Gb/s	80 km	- 5 to 70	3.3						■						●				●	●											●	LC	Pluggable	Digital
SFP+/SFP28	FTLX3871yCCxx	✓	Duplex SMF	C-Band DWDM Fixed	DWDM EML	APD	11.3 Gb/s	80 km	- 5 to 70	3.3						■						■				■	■											■	LC	Pluggable	Digital
SFP+/SFP28	FTLF8529P4BxV[5]	✓	Duplex MMF	850nm Band	VCSEL	PIN	14.025 Gb/s	100 m	0 to 85	3.3					●	●	●																						LC	Pluggable	Digital
SFP+/SFP28	FTLF1429P3BxV[5]	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	14.025 Gb/s	10 km	- 5 to 85	3.3					●	●	●																						LC	Pluggable	Digital
SFP+/SFP28	FTLF1429P3BCE	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	14.025 Gb/s	25 km	0 to 70	3.3					●	●	●																						LC	Pluggable	Digital
SFP+/SFP28	FTLF8532P4BCV	✓	Duplex MMF	850nm Band	VCSEL	PIN	28.05 Gb/s	100 m	0 to 70	3.3						●	●	●																					LC	Pluggable	Digital
SFP+/SFP28	FTLF8536P4BCL		Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	100 m	0 to 70	3.3																		●											LC	Pluggable	Digital
SFP+/SFP28	FTLF8538P4BCL		Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	30/50/70 m[4]	0 to 70	3.3																		●											LC	Pluggable	Digital
SFP+/SFP28	FTLF1432P3BCV	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	28.05 Gb/s	10 km	0 to 70	3.3						●	●	●																					LC	Pluggable	Digital
SFP+/SFP28	FTLF1436P3BCL		Duplex SMF	1310nm Band	DFB Laser	PIN	25.78 Gb/s	10 km	0 to 70	3.3																		●											LC	Pluggable	Digital
CFP/CFP2/CFP4	FTLC9141RENM (CFP4)		Duplex MMF	850nm Band	4x VCSEL	PIN	103.1 Gb/s	100 m[3]	0 to 70	3.3																				●									MPO(MTP12)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC9141SENM (CFP4)		Duplex MMF	850nm Band	4x VCSEL	PIN	112 Gb/s	100 m[3]	0 to 70	3.3															●					●									MPO(MTP12)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC1141RDNL (CFP4)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	103.1 Gb/s	10 km	0 to 75	3.3																				●									LC	Pluggable	Digital
CFP/CFP2/CFP4	FTLC1141SDNL (CFP4)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	112 Gb/s	10 km	0 to 75	3.3															●					●									LC	Pluggable	Digital
CFP/CFP2/CFP4	FTLC8221RFNM (CFP2)	✓	Parallel MMF	850nm Band	10x VCSEL	PIN	103 Gb/s	300 m[2]	0 to 70	3.3																●	■		■	●		●							MPO(MTP24)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC8221SCNM (CFP2)		Parallel MMF	850nm Band	10x VCSEL	PIN	112 Gb/s	100 m[2]	0 to 70	3.3															●					●									MPO(MTP24)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC1121RDNL (CFP2)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	103.1 Gb/s	10 km	0 to 70	3.3																				●									LC	Pluggable	Digital
CFP/CFP2/CFP4	FTLC1121SDNL (CFP2)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	112 Gb/s	10 km	0 to 70	3.3															●					●									LC	Pluggable	Digital
CFP/CFP2/CFP4	FTLQ8181EBLM (CFP)		Parallel MMF	850nm Band	4x VCSEL	PIN	41.2 Gb/s	100 m[1]	0 to 70	3.3																			●										MPO(MTP12)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC8281RCNM (CFP)		Parallel MMF	850nm Band	VCSEL	PIN	103.1 Gb/s	100 m[1]	0 to 70	3.3																				●									MPO(MTP24)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC8281SCNM (CFP)		Parallel MMF	850nm Band	10x VCSEL	PIN	112 Gb/s	100 m[1]	0 to 70	3.3															●					●									MPO(MTP24)	Pluggable	Digital
CFP/CFP2/CFP4	FTLC1183RDNx (CFP)	✓	Duplex SMF	1310nm Band	4x DFB Laser	PIN	103.1 Gb/s	10 km	0 to 70	3.3																				●									SC/LC	Pluggable	Digital
CFP/CFP2/CFP4	FTLC1183SDNx (CFP)	✓	Duplex SMF	1310nm Band	4x DFB Laser	PIN	112 Gb/s	10 km	0 to 70	3.3															●					●									SC/LC	Pluggable	Digital

	Part Number	Rate Select	Media Type	Wavelength (nm)	Transmitter	Receiver	Data Rate (max)	Reach	Case Temperature Range (°C)	Voltage Supply (V)	Optical Fast Ethernet	Optical Gigabit Ethernet	1x Fibre Channel	2x Fibre Channel	4x Fibre Channel	8x Fibre Channel	16x Fibre Channel	32x Fibre Channel	SONET OC-3	SONET OC-12	SONET OC-48	SONET OC-192	SONET OC-768	OTN OTU3	OTN OTU4	10x Fibre Channel	10G Ethernet	25G Ethernet	40G Ethernet	100G Ethernet	200G Ethernet	IB QDR	IB FDR	IB EDR	IB SDR	1000BASE-T	PON	Wireless CPRI†	Connector	Module Type	Diagnostics
QSFP+/QSFP28	FTL410QExC (QSFP+)		Parallel MMF	850nm Band	4x VCSEL	PIN	41.2 Gb/s	100 m	0 to 70	3.3																	■		●			■							MPO (MTP12)	Pluggable	Digital
QSFP+/QSFP28	FTL410QDxC (QSFP+)		Parallel MMF	850nm Band	4x VCSEL	PIN	41.2 Gb/s	300 m	0 to 70	3.3																	●		●			■							MPO (MTP12)	Pluggable	Digital
QSFP+/QSFP28	FTL410QE2N (QSFP+)		Parallel MMF	850nm Band	4x VCSEL	PIN	41.2 Gb/s	100 m	-5 to 85	3.3																	●		●			■							MPO (MTP12)	Pluggable	Limited
QSFP+/QSFP28	FTL414QB2C (QSFP+)		Parallel MMF	850nm Band	4x VCSEL	PIN	56 Gb/s	60 m	0 to 70	3.3																	●		●			■	■						MPO (MTP12)	Pluggable	Limited
QSFP+/QSFP28	FTL4C2QE1C (QSFP+)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	41.2 Gb/s	160 m	0 to 70	3.3							■																						LC	Pluggable	Digital
QSFP+/QSFP28	FTL4C3QE1C (QSFP+)		Duplex SMF/MMF	1310nm Band	4x DFB Laser	PIN	41.2 Gb/s	1 km	0 to 70	3.3							■																						LC	Pluggable	Digital
QSFP+/QSFP28	FTL4S1QE1C (QSFP+)		Duplex MMF	850nm Band	4x VCSEL	PIN	41.2 Gb/s	300 m	0 to 70	3.3																			●										LC	Pluggable	Digital
QSFP+/QSFP28	FTL4C1QL2C (QSFP+)[5]		Duplex SMF	1310nm Band	4x DFB Laser	PIN	41.2 Gb/s	2 km	0 to 70	3.3																	■		■			■							LC	Pluggable	Digital
QSFP+/QSFP28	FTL4C1QE1C (QSFP+)[5]		Duplex SMF	1310nm Band	4x DFB Laser	PIN	41.2 Gb/s	10 km	0 to 70	3.3																			●										LC	Pluggable	Digital
QSFP+/QSFP28	FTL4C1QM1C (QSFP+)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	44.6 Gb/s	10 km	0 to 70	3.3														●					●										LC	Pluggable	Digital
QSFP+/QSFP28	FTL4E1QE1C (QSFP+)		Duplex SMF	1310nm Band	4x DFB Laser	APD	41.2 Gb/s	40 km	0 to 70	3.3														■					●										LC	Pluggable	Digital
QSFP+/QSFP28	FTL4E1QM1C (QSFP+)		Duplex SMF	1310nm Band	4x DFB Laser	APD	44.6 Gb/s	40 km	0 to 70	3.3														■					●										LC	Pluggable	Digital
QSFP+/QSFP28	FTLC9551REPM (QSFP28)		Parallel MMF	850nm Band	4x VCSEL	PIN	103.1 Gb/s	100 m[3]	0 to 70	3.3																		●		●									MPO (MTP12)	Pluggable	Digital
QSFP+/QSFP28	FTLC9551SEPM (QSFP28)		Parallel MMF	850nm Band	4x VCSEL	PIN	112.2 Gb/s	100 m[3]	0 to 70	3.3								●							●			●		●									MPO (MTP12)	Pluggable	Digital
QSFP+/QSFP28	FTLC9552FEPM (QSFP28)		Parallel MMF	850nm Band	4x VCSEL	PIN	103.1 Gb/s	100 m[3]	0 to 70	3.3						●	●	●							●			●		●									MPO (MTP12)	Pluggable	Digital
QSFP+/QSFP28	FTLC9554REPM (QSFP28)		Parallel MMF	850nm Band	4x VCSEL	PIN	103.1 Gb/s	30/50/70 m[4]	0 to 70	3.3																		●		●				●					MPO (MTP12)	Pluggable	Digital
QSFP+/QSFP28	FTLC1152RGPL (QSFP28)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	103.1 Gb/s	2 km	0 to 70	3.3																				●									LC	Pluggable	Digital
QSFP+/QSFP28	FTLC1152SGPL (QSFP28)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	112.2 Gb/s	2 km	0 to 70	3.3															●					●									LC	Pluggable	Digital
QSFP+/QSFP28	FTLC1151RDPL (QSFP28)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	103.1 Gb/s	10 km	0 to 70	3.3																				●									LC	Pluggable	Digital
QSFP+/QSFP28	FTLC1151SDPL (QSFP28)		Duplex SMF	1310nm Band	4x DFB Laser	PIN	112.2 Gb/s	10 km	0 to 70	3.3															●					●				■					LC	Pluggable	Digital
CXP	FTLD10CE1C		Parallel MMF	850nm Band	12x VCSEL	PIN	126 Gb/s	100 m[1]	0 to 70	3.3																■	■		■	●		●			●				MPO (MTP24)	Pluggable	Digital
CXP	FTLD10CE3C		Parallel MMF	850nm Band	12x VCSEL	PIN	135.6 Gb/s	100 m[1]	0 to 70	3.3																■	■		■	●		●			●				MPO (MTP24)	Pluggable	Digital
CXP	FTLD10CD3C		Parallel MMF	850nm Band	12x VCSEL	PIN	135.6 Gb/s	300 m[1]	0 to 70	3.3																■	■		■	●		●			●				MPO (MTP24)	Pluggable	Digital
CXP	FTLD12CL3C		Parallel MMF	850nm Band	12x VCSEL	PIN	150 Gb/s	100 m[1]	0 to 70	3.3																■	■		■	●		●			●				MPO (MTP24)	Pluggable	Digital
Active Optical Cables	SFPwire (10G SFP+ based AOC)		Duplex MMF	850nm Band	VCSEL	PIN	10.3 Gb/s	30 m	0 to 70	3.3																■	●												N/A	SFP+ AOC	N/A
Active Optical Cables	SFPwire (25G SFP+ based AOC)		Duplex MMF	850nm Band	VCSEL	PIN	25.78 Gb/s	30 m	0 to 70	3.3																■	■	●											N/A	SFP+ AOC	N/A
Active Optical Cables	Quadwire (40G QSFP-based AOC)		Parallel MMF	850nm Band	4x VCSEL	PIN	42 Gb/s	300 m	0 to 70	3.3																	●		●			●							N/A	QSFP+ AOC	Digital
Active Optical Cables	Quadwire Fanout (40G QSFP to 4xSFP+ AOC)		Duplex/Parallel MMF	850nm Band	4x VCSEL	PIN	42 Gb/s	30 m	0 to 70	3.3																	●					●							N/A	QSFP+/SFP+ AOC	Digital
Active Optical Cables	Quadwire (56G QSFP-based AOC)		Parallel MMF	850nm Band	4x VCSEL	PIN	56 Gb/s	100 m	0 to 70	3.3							●										●		●			●	●						N/A	QSFP+ AOC	Digital
Active Optical Cables	Quadwire (100G QSFP28-based AOC)		Parallel MMF	850nm Band	4x VCSEL	PIN	112 Gb/s	100 m	0 to 70	3.3								■							■					●		●	●	●					N/A	QSFP28 AOC	Digital
Active Optical Cables	C.wire (CXP-based AOC)		Parallel MMF	850nm Band	12x VCSEL	PIN	150 Gb/s	100 m	0 to 70	3.3							●										●		●	●		●	●						N/A	CXP AOC	Digital
Optical Engines	FBOTD10SL1C00 (10G BOA)		Parallel MMF	850nm Band	12x VCSEL	PIN	12 x 10.5 Gb/s	100 m	0 to 70	3.3		■	■	■	■	■					■	■	■	■	■	■	■		■	■		■	■		■			■	MT	Board-mount	Digital
Optical Engines	FBOTD10FL1C00 (10G BOA)		Parallel MMF	850nm Band	12x VCSEL	PIN	12 x 10.5 Gb/s	100 m	0 to 70	3.3		■	■	■	■	■					■	■	■	■	■	■	■		■	■		■	■		■			■	MT	Board-mount	Digital
Optical Engines	FBOTD25ML3C00		Parallel MMF	850nm Band	12xVCSEL	PIN	12x 25 Gb/s	70 m	0 to 70	3.3	■	■	■	■	■	■					■	■	■	■	■	■	■	■	■	■		■	■	■				■	MT	Board-mount	Digital
Optical Engines	FBOTD25MT3C00		Parallel MMF	850nm Band	12xVCSEL	PIN	12x 25 Gb/s	70 m	0 to 70	3.3	■	■	■	■	■	■					■	■	■	■	■	■	■	■	■	■		■	■	■				■	MT	Board-mount	Digital
Coherent	FTLC3321x3NL (CFP2-ACO)		Duplex SMF	C-Band DWDM Tunable	Tunable DP-QPSK/16QAM	Coherent	256 Gb/s	2,000 km	-5 to 70	3.3															■					■	■								LC	Pluggable	Digital
XFP	FTLX8512D3BCL		Duplex MMF	850nm Band	VCSEL	PIN	10.5 Gb/s	300 m[1]	0 to 70	3.3						●										●	●												LC	Pluggable	Digital
XFP	FTLX8512D3BTL		Duplex MMF	850nm Band	VCSEL	PIN	10.5 Gb/s	300 m[1]	- 40 to 85	3.3						●										●	●												LC	Pluggable	Digital
XFP	FTLX1413D3BCL		Duplex SMF	1310nm Band	DFB Laser	PIN	10.5 Gb/s	10 km	0 to 70	3.3						●										●	●												LC	Pluggable	Digital
XFP	FTLX1413D3BTL		Duplex SMF	1310nm Band	DFB Laser	PIN	11.3 Gb/s	10 km	- 40 to 85	3.3						●										●	●												LC	Pluggable	Digital
XFP	FTLX1413M3BCL		Duplex SMF	1310nm Band	DFB Laser	PIN	11.3 Gb/s	10 km	0 to 70	1.5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX1413M3BTL		Duplex SMF	1310nm Band	DFB Laser	PIN	11.3 Gb/s	10 km	- 40 to 85	3.3						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX1612M3BCL		Duplex SMF	1550nm	EML	PIN	11.3 Gb/s	40 km	- 5 to 75	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX1612M3BTL		Duplex SMF	1550nm	EML	PIN	11.3 Gb/s	40 km	- 40 to 85	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX1812M3BCL		Duplex SMF	1550nm	EML	APD	11.3 Gb/s	80 km	- 5 to 70	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX1812M3BTL		Duplex SMF	1550nm	EML	APD	11.3 Gb/s	80 km	- 40 to 85	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX3613M3xx		Duplex SMF	C-Band DWDM Fixed	DWDM EML	PIN	11.3 Gb/s	40 km	0 to 70	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX3912M3xx		Duplex SMF	C-Band DWDM Fixed	DWDM EML	APD	11.3 Gb/s	40 km	0 to 70	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX3813F3xx		Duplex SMF	C-Band DWDM Fixed	DWDM EML	APD	8.8 Gb/s	80 km	0 to 70	3.3, 5						●																							LC	Pluggable	Digital
XFP	FTLX3813M3xx		Duplex SMF	C-Band DWDM Fixed	DWDM EML	APD	11.3 Gb/s	80 km	0 to 70	3.3, 5						●						●				●	●												LC	Pluggable	Digital
XFP	FTLX3815M3xx		Duplex SMF	C-Band DWDM Fixed	Tunable + InP MZM	APD	11.3 Gb/s	80 km	0 to 70	3.3, 5						■						●				●	●												LC	Pluggable	Digital
XFP	FTLX4213M3BCL		Duplex SMF	1550nm	CML™	APD	10.5 Gb/s	120 km	- 5 to 70	3.3, 5												●				●	●												LC	Pluggable	Digital
XFP	FTLX4213xxxxxx		Duplex SMF	C/L-Band DWDM Fixed	CML™	APD	11.3 Gb/s	200 km	0 to 70	3.3, 5												●				●	●												LC	Pluggable	Digital
XFP	FTLX5813P3Cxxx		Duplex SMF	C-Band DWDM Tunable	Narrow Tunable	APD	11.3 Gb/s	80 km	- 5 to 70	3.3, 5						■						●				●	●												LC	Pluggable	Digital
XFP	FTLX6624MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	PIN	11.3 Gb/s	40 km	- 5 to 70	3.3, 5						■						●				●	●												LC	Pluggable	Digital
XFP	FTLX6824MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	APD	11.3 Gb/s	80 km	- 5 to 70	3.3, 5						■						●				●	●												LC	Pluggable	Digital
XFP	FTLX6824MNC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	APD	11.3 Gb/s	80 km	- 5 to 85	3.3, 5						■						●				●	●												LC	Pluggable	Digital
XFP	FTLX6825MCC		Duplex SMF	C-Band DWDM Tunable	Tunable + InP MZM	APD	11.3 Gb/s	80 km	- 5 to 70	3.3, 5						■						●				●	●												LC	Pluggable	Digital
X2	FTLX8541E2		Duplex MMF	850nm Band	VCSEL	PIN	10.3 Gb/s	300 m[1]	0 to 70	1.2, 3.3, 5																	●												SC	Pluggable	Digital
X2	FTLX1442E2		Duplex SMF	1310nm Band	DFB Laser	PIN	10.3 Gb/s	10 km	0 to 70	1.2, 3.3, 5																	●												SC	Pluggable	Digital
Endurance	FTE85xxxx	✓	Duplex MMF	850nm Band	VCSEL	PIN	14.025 Gb/s	550 m	-40 to 85	3.3	■	●	●	●	●	●	●										●												LC	Endurance	Digital
Endurance	FTE14xxxx	✓	Duplex SMF	1310nm Band	DFB Laser	PIN	10 Gb/s	10 km	-40 to 85	3.3	■	●	●	●	●	●											●												LC	Endurance	Digital
SFF	FTLF8519F2xCL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	0 to 70	3.3	■	●	●	●																									LC	2x5	N/A
SFF	FTLF8519F2xNL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	- 10 to 85	3.3	■	●	●	●																									LC	2x5	N/A
SFF	FTLF8519F2xTL		Duplex MMF	850nm Band	VCSEL	PIN	2.125 Gb/s	550 m	- 40 to 85	3.3	■	●	●	●																									LC	2x5	N/A
SFF	FTLF8524E2xNV	✓	Duplex MMF	850nm Band	VCSEL	PIN	4.25 Gb/s	550 m	- 10 to 85	3.3		■	●	●	●																								LC	2x7	Digital
SFF	FTLF1319F1xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	2.125 Gb/s	10 km	- 40 to 85	3.3		●	●	●																									LC	2x5	N/A
SFF	FTLF1321S1xTL		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	2.67 Gb/s	2 km	- 40 to 85	3.3		●	●	●					■	■	●																		LC	2x10	Analog & Digital
SFF	FTLF1421S1xCL		Duplex SMF	1310nm Band	DFB Laser	PIN	2.67 Gb/s	15 km	- 10 to 70	3.3		●	●	●					■	■	●																		LC	2x10	Analog & Digital
SFF	FTLF1721S1xCL		Duplex SMF	1310nm Band	DFB Laser	APD	2.67 Gb/s	40 km	- 10 to 70	3.3		●	●	●					■	■	●																		LC	2x10	Analog & Digital
SFF	FTLF1621S1xCL		Duplex SMF	1550nm	DFB Laser	APD	2.67 Gb/s	80 km	- 10 to 70	3.3		●	●	●					■	■	●																		LC	2x10	Analog & Digital
SFF	FTLF1323F2xTR		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	155 Mb/s	15 km	- 40 to 85	3.3	■								●																				LC	2x5	N/A
SFF	FTLF1322F2xTR		Duplex SMF	1310nm Band	Fabry-Perot Laser	PIN	622 Mb/s	15 km	- 40 to 85	3.3									●	●																			LC	2x5	N/A

[1] Using OM3 multimode fiber. [2] Extended case temperature ranges and reaches are available upon request. [3] 100m using OM4 multimode fiber and FEC. [4] 30m/50m/70m OM3 MMF for FEC Free, Firecode FEC and RS-FEC respectively. [5] Other operating case temp. range options are available. Compliant ● Compatible ■

† Wireless CPRI include the following data rates (Gb/s): 1.23, 3.07, 4.92, 6.14, 9.83 02/17

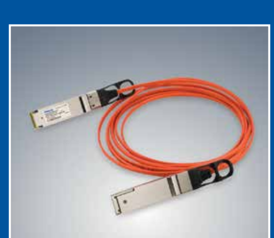

SFP


SFP+/SFP28


CFP/CFP2/CFP4


QSFP+/QSFP28


CXP


Active Optical Cables


Optical Engines


Coherent


XFP


X2


Endurance


SFF

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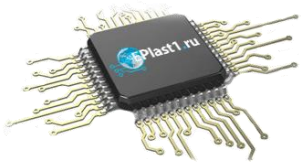
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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