Finisar®

Product Guide

Transceivers, Transponders, and Active Cables for Datacom and Telecom Applications

TRANSCEIVERS, TRANSPONDERS, AND ACTIVE CABLES FOR DATACOM AND TELECOM APPLICATIONS

Finisar's broad product selection and innovative technology have made us the optical module manufacturer of choice for all major networking equipment vendors worldwide. We have taken a leading role in transforming the datacommunications and telecommunications equipment market from utilizing discrete optical components to leveraging the design and pay-as-you-grow flexibility offered by pluggable modules. Our products are fully compliant with Ethernet, Fibre Channel, SONET/SDH/OTN and PON standards and operate at data rates up to 100 Gb/s. They are capable of distances ranging from very short reach within a datacenter to campus, access, metro, and long-haul reaches. They feature outstanding performance over extended voltage and temperature ranges, while minimizing jitter, electromagnetic interference (EMI) and power dissipation.

FINISAR MODULES ARE AVAILABLE IN A WIDE VARIETY OF FORM FACTORS:

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 and OC-48/STM-16 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/OBSAI compliant


SFP

SFP+ (optical; longwave and shortwave)

- **DATACOM** applications using 10 Gigabit Ethernet and 2x/4x/8x/16x Fibre Channel

Features

- 3.3 V operating voltage
- Supports bit rates up to 14.025 Gb/s
- Distances from short links up to 80 km metro links
- Wide operating temperature range
- Digital diagnostics
- Wireless CPRI/OBSAI compliant


SFP+

CFP (optical; longwave and shortwave)

- **DATACOM** applications using 40G and 100G Ethernet
- **TELECOM** applications using OTU3 across all reaches

Features

- Hot-pluggable CFP form factor
- Supports 39.8 Gb/s to 103.1 Gb/s aggregate bit rates
- CFP MSA-compliant form factor
- Single 3.3 V power supply


CFP

QSFP (optical; longwave and shortwave)

- **DATACOM** applications using 40G Ethernet
- **TELECOM** applications using OTU3

Features

- Four-channel full-duplex transceiver module
- Hot Pluggable, MSA-compliant QSFP+ form factor
- Maximum link length of 100 m on OM3 MMF, 150 m on OM4 MMF, and 10 km on SMF
- Multirate capability; supports 1.06 Gb/s to 11.3 Gb/s per channel


QSFP

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 100m on OM3 MMF and 150m on OM4 MMF
- Multirate capability: supports 1.06 Gb/s to 12.5 Gb/s per channel


CXP

Active Optical Cables

laserwire	10 Gb/s Serial Active Optical Cable for 1/10GbE and 1/2/4/8x Fibre Channel
quadwire	40 Gb/s to 56 Gb/s Parallel Active Optical Cable for 40GbE, InfiniBand 4xQDR, and Infiniband 4xFDR
C.wire	150 Gb/s Parallel Active Optical Cable for 100GbE and InfiniBand 12xQDR


Active Optical Cables

SNAP12 (optical; shortwave)

– **DATACOM** applications for inter-chassis connections

Features

- Twelve-channel transmitter and receiver modules
- Pluggable MegArray connector and unretimed electrical interface
- Maximum link length of 600m at 2.5Gb/s on OM3 MMF Fiber
- Multirate capability: 1 Gb/s to 2.7 Gb/s per channel

SNAP12

XFP (optical; longwave, shortwave, DWDM, and Tunable)

– **DATACOM** applications using 10 Gigabit 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 80 km
- Digital diagnostics

XFP

X2/XENPAK (optical; longwave and shortwave)

– **DATACOM** applications using 10 Gigabit Ethernet and 10x Fibre Channel

Features

- 1.2 V, 3.3 V and 5 V operating voltage
- Supports bit rates up to 10.5 Gb/s
- Distances up to 10 km
- Digital diagnostics

X2

300 PIN (optical; longwave)

– **TELECOM** 10 Gb/s and 40 Gb/s applications

Features

- Supports bit rates up to 44.6 Gb/s
- Available in RZ-OOK (10G), NRZ-OOK (10G/40G), and NRZ-DPSK (40G) formats
- Compliant to industry standards (ITU-T; SFI-4/5; 300 PIN MSA)
- DWDM broadly 50GHz spaced tunablility across C or L bands

XENPAK

SFF (optical 2x5, 2x7 and 2x10; 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

- 3.3 V operating voltage
- Distances from very short links up to 80 km
- Wide operating temperature range
- Metal enclosure for lower EMI
- 2x7 and 2x10 incorporate digital diagnostics

300 PIN

PON (optical; longwave)

– **TELECOM** access applications for GPON and EPON

Features

- 3.3 V operating voltage
- EPON stick incorporates full EPON ONU functionality
- Distances up to 20 km, Class B+, PX-20+
- Digital diagnostics

SFF

FINISAR'S PATENTED DIGITAL DIAGNOSTICS

Finisar's XFP, XPAK, X2, XENPAK, 300 PIN, SFP, SFP+, and 2x7 and 2x10 SFF transceivers feature a microprocessor and diagnostics interface that provides 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 digital diagnostic functions provide network managers with a highly accurate, cost-effective tool for implementing reliable performance monitoring.

PON

World's Largest Supplier of Optical Communication Components and Subsystems

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SFP

SFP+

SFF

PON

XFP

X2

XENPAK

300 PIN

CFP

SNAP12

AOC/QSFP/CXP

Family	Part Number	RoHS (lead free)	Rate Select	Media Type	Wavelength (nm)	Transmitter	Receiver	Data Rate (max)	Voltage Supply (V)	Case Temperature Range (°C)	Connector	Module Type	Diagnostics	Reach
SFP	FCLF-8520/21-3	✓		Copper	N/A	N/A	N/A	1.25 Gb/s	3.3	0 to 85	RJ-45	Pluggable	N/A	100 m
SFP	FCLF852xP2BTL	✓		Copper	N/A	N/A	N/A	1.25 Gb/s	3.3	- 40 to 85	RJ-45	Pluggable	N/A	100 m
SFP	FTLF8519P3xNL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3	- 20 to 85	LC	Pluggable	Digital	550 m
SFP	FTLF8519P3xTL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	550 m
SFP	FTLF8524P3xNL	✓		Multimode	850	Oxide VCSEL	PIN	3.7 GB/s	3.3	- 40 to 85	LC	Pluggable	Digital	300 m
SFP	FTLF8524P2xNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	4.25 Gb/s	3.3	- 20 to 85	LC	Pluggable	Digital	550 m
SFP	FTLF1217P2xTL	✓		Multimode	1310	LED	PIN	200 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	2 km
SFP	FTLF1318P2xCL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	1.25 Gb/s	3.3	0 to 70	LC	Pluggable	N/A	10 km
SFP	FTLF1318P3xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	1.25 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	10 km
SFP	FTLF1419P1xCL	✓		Single Mode	1310	DFB Laser	PIN	2.125 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	55 km
SFP	FTLF1518P1xTL	✓		Single Mode	1550	DFB Laser	PIN	1.25 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	90 km
SFP	FTLF1519P1xCL	✓		Single Mode	1550	DFB Laser	PIN	2.125 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	90 km
SFP	FTLF1519P1xNL	✓		Single Mode	1550	DFB Laser	PIN	2.125 Gb/s	3.3	- 5 to 85	LC	Pluggable	Digital	90 km
SFP	FTLF1619P1xCL	✓		Single Mode	1550	DFB Laser	APD	2.125 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	115 km
SFP	FTLF1324P2xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	4.25 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	4 km
SFP	FTLF1324P2xTV	✓	✓	Single Mode	1310	Fabry-Perot Laser	PIN	4.25 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	4 km
SFP	FTLF1424P2xCR	✓		Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	10 km
SFP	FTLF1424P2xCD	✓	✓	Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	10 km
SFP	FTLF1424P2xTR	✓		Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	10 km
SFP	FTLF1424P2xTD	✓	✓	Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	10 km
SFP	FTLF1424P2xCL	✓		Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	30 km
SFP	FTLF1424P2xCV	✓	✓	Single Mode	1310	DFB Laser	PIN	4.25 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	30 km
SFP	FTLF1323P1xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	155 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	15 km
SFP	FTLF1323P1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	155 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	40 km
SFP	FTLF1523P1xTL	✓		Single Mode	1550	DFB Laser	PIN	155 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	80 km
SFP	FTLF1322P1xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	622 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	15 km
SFP	FTLF1422P1xTL	✓		Single Mode	1310	DFB Laser	PIN	622 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	40 km
SFP	FTLF1522P1xTL	✓		Single Mode	1550	DFB Laser	PIN	622 Mb/s	3.3	- 40 to 85	LC	Pluggable	Digital	80 km
SFP	FTLF1321P1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	2.67 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	2 km
SFP	FTLF1421P1xCL	✓		Single Mode	1310	DFB Laser	PIN	2.67 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	15 km
SFP	FTLF1421P1xTL	✓		Single Mode	1310	DFB Laser	PIN	2.67 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	15 km
SFP	FTLF1521P1xCL	✓		Single Mode	1550	DFB Laser	PIN	2.67 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	15 km
SFP	FTLF1721P1xCL	✓		Single Mode	1310	DFB Laser	APD	2.67 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	40 km
SFP	FTLF1721P2xTL	✓		Single Mode	1310	DFB Laser	APD	2.67 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	40 km
SFP	FTLF1621P1xCL	✓		Single Mode	1550	DFB Laser	APD	2.67 Gb/s	3.3	- 10 to 70	LC	Pluggable	Digital	80 km
SFP	FWLF1523P1C51 (OSC)	✓		Single Mode	1511	DFB Laser	PIN	155 Mb/s	3.3	- 20 to 70	LC	Pluggable	Digital	80 km
SFP	FWLF1523P1N51 (OSC)	✓		Single Mode	1511	DFB Laser	PIN	155 Mb/s	3.3	- 20 to 85	LC	Pluggable	Digital	80 km
SFP	FWLF15197Dxx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	1.25 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	80 km
SFP	FWLF-1619-7D-xx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	1.25 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	100 km
SFP	FWLF15217Dxx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	2.67 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	50 km
SFP	FWLF1521P2Nxx	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	2.67 Gb/s	3.3	- 10 to 85	LC	Pluggable	Digital	50 km
SFP	FWLF-1621-7D-xx(**)	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	2.67 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	80 km
SFP	FWLF1621P2Txx	✓		Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	2.67 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	80 km
SFP	FWLF1524P2Vxx	✓	✓	Single Mode	1471, 1491, 1511, 1531 1551, 1571, 1591, 1611	CWDM DFB Laser	PIN	4.25 Gb/s	3.3	- 5 to 75	LC	Pluggable	Digital	40 km
SFP	FWLF1625P2Vxx	✓	✓	Single Mode	1471, 1491, 1511,1531 1551, 1571, 1591, 1611	CWDM DFB Laser	APD	5 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	80 km
SFP	FWLF1631xx(**)	✓		Single Mode	DWDM C-Band	DWDM DFB Laser	APD	2.67 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	120 km
SFP	FWLF1631Rxx(**)	✓		Single Mode	DWDM C-Band	DWDM DFB Laser	APD	2.67 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	160 km
SFP	FWLF1634RLxx	✓		Single Mode	DWDM C-Band	DWDM DFB Laser	APD	4.25 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	80 km
SFP	FTLF2318P1BCL (Smart SFP)			Single Mode	1310	FP Laser	PIN	1.25 Gb/s	3.3	- 20 to 70	LC	Pluggable	Digital	10 km
SFP	FWLF2519C1Cxx (Smart SFP)			Single Mode	1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610	CWDM DFB Laser	PIN	1.25 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	50 km
SFP+	FTLF8529P3BCV	✓	✓	Multimode	850	Oxide VCSEL	PIN	14.025 Gb/s	3.3	0 to 70C	LC	Pluggable	Digital	100 m
SFP+	FTLF8529P3BNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	14.025 Gb/s	3.3	0 to 85C	LC	Pluggable	Digital	100 m
SFP+	FTLF8528P3BCV	✓	✓	Multimode	850	Oxide VCSEL	PIN	8.5 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	150 m (*)
SFP+	FTLF8528P3BNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	8.5 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	150 m (*)
SFP+	FTLF1328P2BNV	✓	✓	Single Mode	1310	Fabry-Perot Laser	PIN	8.5 Gb/s	3.3	- 5 to 85	LC	Pluggable	Digital	1.4 km
SFP+	FTLF1428P2BNV	✓	✓	Single Mode	1310	DFB Laser	PIN	8.5 Gb/s	3.3	- 5 to 85	LC	Pluggable	Digital	10 km
SFP+	FTLF1429P3BNV	✓	✓	Single Mode	1310	DFB Laser	PIN	14.025 Gb/s	3.3	- 5 to 85	LC	Pluggable	Digital	10 km
SFP+	FTLX8571D3BCL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	300 m (*)
SFP+	FTLX8571D3BCV	✓	✓	Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	300 m (*)
SFP+	FTLX8571D3BNL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3	0 to 85	LC	Pluggable	Digital	300 m (*)
SFP+	FTLX8573D3BTL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	300 m (*)
SFP+	FTLX1371D3BCL	✓		Mutimode	1310	Fabry-Perot Laser	PIN	10.3 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	220 m (***)
SFP+	FTLX1471D3BCL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	10 km
SFP+	FTLX1471D3BCV	✓	✓	Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	3.3	- 5 to 70	LC	Pluggable	Digital	10 km
SFP+	FTLX1471D3BNL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3	- 5 to 85	LC	Pluggable	Digital	10 km
SFP+	FTLX1471D3BTL	✓		Single Mode	1310	DFB Laser	PIN	10.5 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	10 km
SFP+	FTLX1472M3BCL	✓	✓	Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3	- 5 to 75	LC	Pluggable	Digital	10 km
SFP+	FTLX1671D3BCL	✓		Single Mode	1550	CML™	PIN	10.3 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	40 km
SFP+	FTLX1671D3BTL	✓		Single Mode	1550	CML™	PIN	10.3 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	40 km
SFP+	FTLF8526P3BTL	✓		Multimode	850	Oxide VCSEL	PIN	6.144 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	300 m (*)
SFP+	FTLF1326P3BTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	6.144 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	2 km
SFP+	FTLF1426P2BTL	✓		Single Mode	1310	DFB Laser	PIN	6.144 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	10/15 km
SFF	FTLF8519F2xCL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3	0 to 70	LC	2x5	N/A	550 m
SFF	FTLF8519F2xNL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3	- 10 to 85	LC	2x5	N/A	550 m
SFF	FTLF8519F2xTL	✓		Multimode	850	Oxide VCSEL	PIN	2.125 Gb/s	3.3	- 40 to 85	LC	2x5	N/A	550 m
SFF	FTLF8524E2xNV	✓	✓	Multimode	850	Oxide VCSEL	PIN	4.25 Gb/s	3.3	- 10 to 85	LC	2x7	Digital	550 m
SFF	FTLF1319F1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	2.125 Gb/s	3.3	- 40 to 85	LC	2x5	N/A	10 km
SFF	FTLF1321S1xTL	✓		Single Mode	1310	Fabry-Perot Laser	PIN	2.67 Gb/s	3.3	- 40 to 85	LC	2x10	Analog & Digital	2 km
SFF	FTLF1421S1xCL	✓		Single Mode	1310	DFB Laser	PIN	2.67 Gb/s	3.3	- 10 to 70	LC	2x10	Analog & Digital	15 km
SFF	FTLF1721S1xCL	✓		Single Mode	1310	DFB Laser	APD	2.67 Gb/s	3.3	- 10 to 70	LC	2x10	Analog & Digital	40 km
SFF	FTLF1621S1xCL	✓		Single Mode	1550	DFB Laser	APD	2.67 Gb/s	3.3	- 10 to 70	LC	2x10	Analog & Digital	80 km
SFF	FTLF1323F2xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	155 Mb/s	3.3	- 40 to 85	LC	2x5	N/A	15 km
SFF	FTLF1322F2xTR	✓		Single Mode	1310	Fabry-Perot Laser	PIN	622 Mb/s	3.3	- 40 to 85	LC	2x5	N/A	15 km
PON	FTxL2025S1xUS (OLT SFF)	✓		Single Mode	1490,1310	DFB Laser	APD	2.48/1.25 Gb/s	3.3	- 40 to 85	SC/UPC	2x10	Digital	20 km
PON	FTGL202xP2xUN (OLT SFP)	✓		Single Mode	1490/1310	DFB Laser	APD	2.48/1.25 Gb/s	3.3	- 40 to 85	SC/UPC	Pluggable	Digital	20 km
PON	FTEL2026P2xUN (OLT SFP)	✓		Single Mode	1490/1310	DFB Laser	APD	1.25/1.25 Gb/s	3.3	- 40 to 85	SC/UPC	Pluggable	Digital	20 km
PON	FTEN2115P1NUN (CTC SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3	- 20 to 70	SC	Pluggable	Digital	10 km
PON	FTEN2116P1NUN (CTC SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3	- 20 to 70	SC	Pluggable	Digital	20 km
PON	FTEN2117P1NUN (CTC SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3	- 20 to 70	SC	Pluggable	Digital	20 km+
PON	FTEN2215P1CUN (SFP-ONU)	✓		Single Mode	1310/1490	FP Laser	PIN	1.25 Gb/s	3.3	0 to 70	SC	Pluggable	Digital	10 km
PON	FTEN2216P1CUN (SFP-ONU)	✓		Single Mode	1310/1490	DFB Laser	PIN	1.25 Gb/s	3.3	0 to 70	SC	Pluggable	Digital	20 km
PON	FTEN2217P1CUN (SFP-ONU)	✓		Single Mode	1310/1490	DFB Laser	PIN	1.25 Gb/s	3.3	0 to 70	SC	Pluggable	Digital	20 km+
XFP	FTLX8512D3BCL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	300 m (*)
XFP	FTLX8512D3BTL	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	300 m (*)
XFP	FTLX1413D3BCL	✓		Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	10 km
XFP	FTLX1413M3BCL	✓		Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	10 km
XFP	FTLX1412M3BTL	✓		Single Mode	1310	DFB Laser	PIN	11.3 Gb/s	3.3	- 40 to 85	LC	Pluggable	Digital	10 km
XFP	FTLX1612M3BCL	✓		Single Mode	1550	EML	PIN	11.3 Gb/s	3.3 and 5	- 5 to 75	LC	Pluggable	Digital	40 km
XFP	FTLX1612M3BTL	✓		Single Mode	1550	EML	PIN	11.3 Gb/s	3.3 and 5	- 40 to 85	LC	Pluggable	Digital	40 km
XFP	FTLX1812M3BCL	✓		Single Mode	1550	EML	APD	11.3 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	80 km
XFP	FTLX3612M3xx	✓		Single Mode	DWDM C-Band (fixed)	DWDM EML	PIN	11.3 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	40 km
XFP	FTLX3912M3xx	✓		Single Mode	C-Band	EML	APD	11.3 Gb/s	3.3 and 5	0 to 70	LC	Pluggable	Digital	40 km
XFP	FTLX3811F3xx	✓		Single Mode	DWDM C-Band (fixed)	DWDM EML	APD	8.8 Gb/s	1.8, 3.3 and 5	- 5 to 70	LC	Pluggable	Digital	80 km
XFP	FTLX3813M3xx	✓		Single Mode	C-Band	EML	APD	11.3 Gb/s	3.3 and 5	0 to 70	LC	Pluggable	Digital	80 km
XFP	FTLX4213M3BCL	✓		Single Mode	1550	CML™	APD	10.5 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	120 km
XFP	FTLX4213xxxxxx	✓		Single Mode	DWDM C/L Band on 50GHz ITU Grid (FEC-Only)	CML™	APD	11.3 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	200 km
XFP	FTLX5813P3Cxxx	✓		Single Mode	C-Band	Narrow Tunable	APD	11.3 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	80 km
XFP	FTLX6811MCC	✓		Single Mode	C-Band	Tunable + InP MZM	APD	11.3 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	80 km
XFP	FTLX6611MCC	✓		Single Mode	C-Band	Tunable + InP MZM	PIN	11.3 Gb/s	3.3 and 5	- 5 to 70	LC	Pluggable	Digital	40 km
X2	FTLX8541E2	✓		Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	1.2, 3.3 and 5	0 to 70	SC	Pluggable	Digital	300 m (*)
X2	FTLX8541F2	✓		Multimode	850	Oxide VCSEL	PIN	10.5 Gb/s	1.2, 3.3 and 5	0 to 70	SC	Pluggable	Digital	300 m (*)
X2	FTLX1341E2	✓		Multimode	1310	Fabry-Perot Laser	PIN	10.3 Gb/s	1.2, 3.3, and 5	0 to 70	SC	Pluggable	Digital	220 m (***)
X2	FTLX1442E2	✓		Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	1.2, 3.3 and 5	0 to 70	SC	Pluggable	Digital	10 km
XENPAK	FTLX8561E2	✓		Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	1.2, 3.3 and 5	0 to 70	SC	Pluggable	Digital	300 m (*)
XENPAK	FTLX1462E2	✓		Single Mode	1310	DFB Laser	PIN	10.3 Gb/s	1.2, 3.3 and 5	0 to 70	SC	Pluggable	Digital	10 km
300 PIN	54TRAAV2GPL		✓	Single Mode	1550 NRZ	EML	PIN	39.8-43.1 Gb/s	3.3, 5, -5.2	0 to 70	LC/SC/MU	300 PIN	Analog & Digital	2 km
300 PIN	53DPAAU4JBLCB		✓	Single Mode	C/L Band NRZ-DPSK	Tunable + LN	DLI+ Balanced PIN	39.8-44.6 Gb/s	3.3, 5, -5.3	- 5 to 70	LC/SC/MU	300 PIN	Digital	VLH
300 PIN	12TRAAU4MPLCB		✓	Single Mode	C/L Band PIN	Tunable + LN	PIN	11.3 Gb/s	1.8, 3.3, 5, -5.2	- 5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
300 PIN	12TRAAU4MALCB		✓	Single Mode	C/L Band APD	Tunable + LN	APD	11.3 Gb/s	1.8, 3.3, 5, -5.2	- 5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
300 PIN	16TRAAU4MALCB		✓	Single Mode	C/L Band APD	Tunable + LN	APD	11.1 Gb/s	3.3, 5, -5.2	- 5 to 70	LC/SC/MU	300 PIN	Analog & Digital	80 km
300 PIN	12RZAAU4MALCB		✓	Single Mode	C/L Band RZ	Tunable + LN	APD	11.3 Gb/s	1.8, 3.3, 5, -5.2	- 5 to 70	LC/SC/MU	300 PIN	Analog & Digital	50 km
CFP	FTLC1181RDNx	✓	✓	Single Mode	1300nm LAN WDM 4 Channels	EML	PIN	103.1 Gb/s	3.3	0 to 70	SC/LC	Pluggable	Digital	10 km
CFP	FTLC1182SDNx	✓	✓	Single Mode	1300nm LAN WDM 4 Channels	EML	PIN	112 Gb/s	3.3	0 to 70	SC/LC	Pluggable	Digital	10 km
CFP	FTLQ1381N7NL	✓	✓	Single Mode	1550	EML or DFB+MZM	PIN	44.6 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	2km
CFP	FTLQ7181EALx	✓	✓	Single Mode	1300nm CWDM 4Channels	DFB Laser	PIN	41.2 Gb/s	3.3	- 5 to 75	SC/LC	Pluggable	Digital	10 km
CFP	FTLQ7181MALx	✓	✓	Single Mode	1300nm CWDM 4 Channels	DFB Laser	PIN	44.6 Gb/s	3.3	- 5 to 75	SC/LC	Pluggable	Digital	10 km
CFP	FTLQ8181EBLM	✓	✓	Multimode	850nm 4 Channels	Oxide VCSEL	PIN	41.2 Gb/s	3.3	- 5 to 75	MPO(MTP12)	Pluggable	Digital	100 m (*)
SNAP12	FTXD02SL1C (Transmitter)	✓		Multimode	850	12x VCSEL	N/A	12 x 2.7 Gb/s	3.3	- 5 to 75	MegArray	Pluggable	N/A	600 m
SNAP12	FRXD02SL1C (Receiver)	✓		Multimode	850	N/A	PIN	12 x 2.7 Gb/s	3.3	- 5 to 75	MegArray	Pluggable	N/A	600 m
SNAP12	FTXD02SL1T (Transmitter)	✓		Multimode	850	12x VCSEL	N/A	12 x 2.7 Gb/s	3.3	- 40 to 85	MegArray	Pluggable	N/A	600 m
SNAP12	FRXD02SL1T (Receiver)	✓		Multimode	850	N/A	PIN	12 x 2.7 Gb/s	3.3	- 40 to 85	MegArray	Pluggable	N/A	600 m
AOC/QSFP/CXP	Laserwire	✓		Multimode	850	Oxide VCSEL	PIN	10.3 Gb/s	3.3	0 to 60	N/A	AOC	N/A	30 m
AOC/QSFP/CXP	Quadwire (QSFP-based AOC)	✓		Multimode	850	4x VCSEL	PIN	42 Gb/s	3.3	0 to 70	N/A	AOC	Digital	300 m
AOC/QSFP/CXP	C.wire (CXP-based AOC)	✓		Multimode	850	12x VCSEL	PIN	150 Gb/s	3.3	0 to 70	N/A	AOC	Digital	300 m
AOC/QSFP/CXP	FTL410QE1C (QSFP transceiver)	✓		Multimode	850	4x VCSEL	PIN	42 Gb/s	3.3	0 to 70	MPO(MTP24)	QSFP+	Digital	100 m (*)
AOC/QSFP/CXP	FTL4C1QE1C (QSFP transceiver)	✓		Single Mode	1300nm CWDM 4 Channels	DFB Laser	PIN	41.2 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	10 km
AOC/QSFP/CXP	FTL4C1QM1C (QSFP transceiver)	✓		Single Mode	1300nm CWDM 4 Channels	DFB Laser	PIN	44.6 Gb/s	3.3	0 to 70	LC	Pluggable	Digital	10 km
AOC/QSFP/CXP	FTLD10CE1C (CXP transceiver)	✓		Multimode	850	12x VCSEL	PIN	120 Gb/s	3.3	0 to 70	MPO(MTP24)	CXP	Digital	100 m (*)

Part Number	Optical Fast Ethernet	Optical Gigabit Ethernet	1x Fibre Channel	2x Fibre Channel	4x Fibre Channel	8x Fibre Channel	16x Fibre Channel	SONET OC-3	SONET OC-12	SONET OC-48	SONET OC-192	SONET OC-768	OTN OTU3	OTN OTU4	10x Fibre Channel	10 Gigabit Ethernet	40G Ethernet	100G Ethernet	IB QDR	IB FDR	IB SDR	1000BASE-T	PON	Wireless (CPRI/OBSAI)†
FCLF-8520/21-3																						●		●
FCLF852xP2BTL																						●		●
FTLF8519P3xNL		●	●	●																				●
FTLF8519P3xTL		●	●	●																				●
FTLF8524P3xNL		■	■	■																				●
FTLF8524P2xNV		●	●	●	●																			●
FTLF1217P2xTL	●							■																●
FTLF1318P2xCL		●	●																					●
FTLF1318P3xTL		●	●																					●
FTLF1419P1xCL		●	●	●																				●
FTLF1518P1xTL		●	●																					●
FTLF1519P1xCL		●	●	●																				●
FTLF1519P1xNL		●	●	●																				●
FTLF1619P1xCL		●	●	●																				●
FTLF1324P2xTL		■	●	●	●																			●
FTLF1324P2xTV		●	●	●	●																			●
FTLF1424P2xCR		■	●	●	●																			●
FTLF1424P2xCD		●	●	●	●																			●
FTLF1424P2xTR		■	●	●	●																			●
FTLF1424P2xTD		●	●	●	●																			●
FTLF1424P2xCL		■	●	●	●																			●
FTLF1424P2xCV		●	●	●	●																			●
FTLF1323P1xTR	■							●																●
FTLF1323P1xTL	■							●																●
FTLF1523P1xTL	■							●																●
FTLF1322P1xTR								●	●															●
FTLF1422P1xTL									●															●
FTLF1522P1xTL									●															●
FTLF1321P1xTL	■	●	●	●				■	■	●														●
FTLF1421P1xCL	■	●	●	●				■	■	●														●
FTLF1421P1xTL	■	●	●	●				■	■	●														●
FTLF1521P1xCL	■	●	●	●				■	■	●														●
FTLF1721P1xCL	■	●	●	●				■	■	●														●
FTLF1721P2xTL		●	●	●				■	■	●														●
FTLF1621P1xCL		●	●	●				■	■	●														●
FWLF1523P1C51 (OSC)	■							■																
FWLF1523P1N51 (OSC)	■							■																
FWLF15197Dxx(**)	■	●	●					■	■															●
FWLF-1619-7D-xx(**)	■	●	●					■	■															●
FWLF15217Dxx(**)	■	●	●	●				■	■	■														●
FWLF1521P2Nxx	■	●	●	●				■	■	■														●
FWLF-1621-7D-xx(**)	■	●	●	●				■	■	●														●
FWLF1621P2Txx	■	●	●	●				■	■	●														●
FWLF1524P2Vxx		●	●	●	●					●														●
FWLF1625P2Vxx					●			■	■	■														●
FWLF1631xx(**)	■	●	●	●				■	■	●														●
FWLF1631Rxx(**)	■	●	●	●				■	■	●														●
FWLF1634RLxx		■	●	●	●			■	■	■														●
FTLF2318P1BCL (Smart SFP)			●																					●
FWLF2519C1Cxx (Smart SFP)			●																					●
FTLF8529P3BCV					●	●	●																	
FTLF8529P3BNV					●	●	●																	
FTLF8528P3BCV			■	●	●	●																		
FTLF8528P3BNV			■	●	●	●																		
FTLF1328P2BNV				●	●	●																		
FTLF1428P2BNV			■	●	●	●																		
FTLF1429P3BNV				●	●	●																		
FTLX8571D3BCL															●	●								
FTLX8571D3BCV		●														●								
FTLX8571D3BNL															●	●								
FTLX8573D3BTL															●	●								
FTLX1371D3BCL																●								
FTLX1471D3BCL															●	●								
FTLX1471D3BCV		●														●								
FTLX1471D3BNL															●	●								
FTLX1471D3BTL															●	●								
FTLX1472M3BCL						●					●				●	●								
FTLX1671D3BCL						■										●								
FTLX1671D3BTL						■										●								
FTLF8526P3BTL																								●
FTLF1326P3BTL																								●
FTLF1426P2BTL																								●
FTLF8519F2xCL		●	●	●																				
FTLF8519F2xNL		●	●	●																				
FTLF8519F2xTL		●	●	●																				
FTLF8524E2xNV		■	●	●	●																			
FTLF1319F1xTL		●	●	●																				
FTLF1321S1xTL		●	●	●				■	■	●														
FTLF1421S1xCL		●	●	●				■	■	●														
FTLF1721S1xCL		●	●	●				■	■	●														
FTLF1621S1xCL		●	●	●				■	■	●														
FTLF1323F2xTR	■							●																
FTLF1322F2xTR								●	●															
FTxL2025S1xUS (OLT SFF)																							●	
FTGL202xP2xUN (OLT SFP)																							●	
FTEL2026P2xUN (OLT SFP)																							●	
FTEN2115P1NUN (CTC SFP-ONU)																							●	
FTEN2116P1NUN (CTC SFP-ONU)																							●	
FTEN2117P1NUN (CTC SFP-ONU)																							●	
FTEN2215P1CUN (SFP-ONU)																							●	
FTEN2216P1CUN (SFP-ONU)																							●	
FTEN2217P1CUN (SFP-ONU)																							●	
FTLX8512D3BCL															●	●								
FTLX8512D3BTL															●	●								
FTLX1413D3BCL						●									●	●								
FTLX1413M3BCL						●					●				●	●								
FTLX1412M3BTL						●					●				●	●								
FTLX1612M3BCL						●					●				●	●								
FTLX1612M3BTL						●					●				●	●								
FTLX1812M3BCL						●					●				●	●								
FTLX3612M3xx						●					●				●	●								
FTLX3912M3xx						●					●				●	●								
FTLX3811F3xx						●																		
FTLX3813M3xx						●					●				●	●								
FTLX4213M3BCL											●				●	●								
FTLX4213xxxxxx											●				●	●								
FTLX5813P3Cxxx						●					●				●	●								
FTLX6811MCC											●				●	●								
FTLX6611MCC											●				●	●								
FTLX8541E2																●								
FTLX8541F2															●									
FTLX1341E2																●								
FTLX1442E2																●								
FTLX8561E2																●								
FTLX1462E2																●								
54TRAAV2GPL												●	●											
53DPAAU4JBLCB												●	●											
12TRAAU4MPLCB											●				●	●								
12TRAAU4MALCB											●				●	●								
16TRAAU4MALCB											●				●	●								
12RZAAU4MALCB											●				●	●								
FTLC1181RDNx																		●						
FTLC1182SDNx														●				●						
FTLQ1381N7NL												●	●				●							
FTLQ7181EALx																	●							
FTLQ7181MALx													●				●							
FTLQ8181EBLM																	●							
FTXD02SL1C (Transmitter)		■	■	■																	●			
FRXD02SL1C (Receiver)		■	■	■																	●			
FTXD02SL1T (Transmitter)		■	■	■																	●			
FRXD02SL1T (Receiver)		■	■	■																	●			
Laserwire		■	■	■	■	■										●								
Quadwire (QSFP-based AOC)							●										●		●	●				
C.wire (CXP-based AOC)																		●	●					
FTL410QE1C (QSFP transceiver)															■	■	●		■					
FTL4C1QE1C (QSFP transceiver)																	●							
FTL4C1QM1C (QSFP transceiver)													●				●							
FTLD10CE1C (CXP transceiver)															■	■	■	●	■					

(*) Using 50-micron multimode fiber with 2000 MHz* km bandwidth (**) Extended case temperature ranges and reaches are available upon request (***) 100 m using 50-micron multimode fiber with 400 MHz*km bandwidth Compliant ● Compatible ■ VLH: Very Long Haul †Wireless CPRI/OBSAI include the following data rates: 1.23 G, 3.07 G, 4.92 G, 6.14 G

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