



Single Fiber EFM SFP Products

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SFP	Data Rate (mb/s)	Tx	Tx Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Wavelength (nm)	Rx Sens (dBm)	Distance on SMF Fiber (Km)	Temperature Range
SPL-35-FE-BX	125	FP	1310	-11	PIN	1550	-28.2	10	C,I
SPL-53-FE-BX	125	FP	1550	-11	PIN	1310	-28.2	10	C,I
SPL-35-FE-EBX	125	FP	1310	-11	PIN	1550	-28.2	20	C,I
SPL-53-FE-EBX	125	FP	1550	-11	PIN	1310	-28.2	20	C,I
SPL-35-FE-BD	125	FP	1310	-2	PIN	1550	-28.2	40	C,I
SPL-53-FE-BD	125	DFB	1550	-2	PIN	1310	-28.2	40	C,I
SPL-45-FE-BZ	125	DFB	1490	2	PIN	1570	-28.2	80	C
SPL-54-FE-BZ	125	DFB	1570	2	PIN	1490	-28.2	80	C
SPL-34-GB-BX	1250	FP	1310	-6	PIN	1490	-20	10	C,I
SPL-43-GB-BX	1250	DFB	1490	-6	PIN	1310	-20	10	C,I
SPL-34-GB-EBX	1250	FP	1310	-4	PIN	1490	-20	20	C
SPL-43-GB-EBX	1250	DFB	1490	-4	PIN	1310	-20	20	C,I
SPL-34-GB-BD	1250	DFB	1310	1	PIN	1490	-23	40	C,I
SPL-43-GB-BD	1250	DFB	1490	1	PIN	1310	-23	40	C,I
SPL-45-GB-BZ	1250	DFB	1490	2	PIN	1570	-24	80	C
SPL-54-GB-BZ	1250	DFB	1570	2	PIN	1490	-24	80	C
SPL-45-GB-EBZ	1250	DFB	1490	2	APD	1570	-30	120	C
SPL-54-GB-EBZ	1250	DFB	1570	2	APD	1490	-30	120	C
SPL-35-DR-IR1	155 & 622	FP	1310	-11	PIN	1550	-28	15	C,I
SPL-53-DR-IR1	155 & 622	DFB	1550	-11	PIN	1310	-28	15	C,I
SPL-35-DR-IR2	155 & 622	DFB	1310	-0.5	PIN	1550	-28	40	C,I
SPL-53-DR-IR2	155 & 622	DFB	1550	-0.5	PIN	1310	-28	40	C,I
SPL-45-DR-LR2	155 & 622	DFB	1490	-0.5	PIN	1570	-28	80	C
SPL-54-DR-LR2	155 & 622	DFB	1570	-0.5	PIN	1490	-28	80	C
SPL-35-MR-IR1	100 to 2700	DFB	1310	-2.5	PIN	1550	-18	15	C,I
SPL-53-MR-IR1	100 to 2700	DFB	1550	-2.5	PIN	1310	-18	15	C,I
SPL-45-MR-IR2	100 to 2700	DFB	1490	0.5	PIN	1570	-18	40	C
SPL-54-MR-IR2	100 to 2700	DFB	1570	0.5	PIN	1490	-18	40	C
SPL-45-MR-LR2	100 to 2700	DFB	1490	0.5	APD	1570	-28	80	C
SPL-54-MR-LR2	100 to 2700	DFB	1570	0.5	APD	1490	-28	80	C
SPL-35-03-EBX	155	FP	1310	-11	PIN	1550	-32	20	C,I,E
SPL-53-03-EBX	155	FP	1550	-11	PIN	1310	-32	20	C,I,E

Note: Custom wavelength combinations available

SFP Products

SFP	Data Rate (Mb/s)	Tx	Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Sens (dBm)	Distance on SMF Fiber (Km)	Temperature Range
SP-FE-LX	125	FP	1310	-11	PIN	-25	10	C,I
SP-FE-FX	125/155	FP	1310	-17	PIN	-30	2(MMF)	C,I
SP-03-IR1	155	FP	1310	-11	PIN	-28	15	C,I
SP-03-LR1	155	FP	1310	-2.5	PIN	-34	40	C,I
SP-03-LR2	155	DFB	1550	-2.5	PIN	-34	80	C,I
SP-12-IR1	622	FP	1310	-11	PIN	-28	15	C,I
SP-12-LR1	622	DFB	1310	0.5	PIN	-28	40	C,I
SP-12-LR2	622	DFB	1550	0.5	PIN	-28	80	C,I
SP-DR-IR1	155 & 622	FP	1310	-11	PIN	-28	15	C,I
SP-GB-SX	1250 (GBE & FC)	VCSEL	850	-5	PIN	-17	0.55	C,I
SP-GB-MX	1250 (GBE & FC)	FP	1310	-6	PIN	-17	2 (MMF)	C,I
SP-GB-LX	1250 (GBE & FC)	FP	1310	-6	PIN	-20	10	C,I
SP-GB-ELX	1250 (GBE & FC)	FP	1310	-4	PIN	-22	20	C
SP-GB-EX	1250 (GBE & FC)	DFB	1310	-2.5	PIN	-22	40	C,I
SP-GB-XD	1250 (GBE & FC)	DFB	1550	-2.5	PIN	-22	50	C,I
SP-GB-ZX	1250 (GBE & FC)	DFB	1550	2	PIN	-22	80	C,I
SP-GB-EZX	1250 (GBE & FC)	DFB	1550	2	APD	-30	120	C,I
SP-TR-SX	Tri-Rate (GBE, FC and 2xFC)	VCSEL	850	-5	PIN	-17	0.3	C,I
SP-TR-LX	Tri-Rate (GBE, FC and 2xFC)	FP	1310	-5	PIN	-20	10	C,I
SP-MR-SR1	100 to 2700	FP	1310	-6	PIN	-18	2	C,I
SP-MR-IR1	100 to 2700	DFB	1310	-2.5	PIN	-18	15	C,R,I
SP-MR-IR2	100 to 2700	DFB	1550	-2.5	PIN	-18	40	C,R,I
SP-MR-LR1	100 to 2700	DFB	1310	0.5	APD	-27	40	C,R,I
SP-MR-LR2	100 to 2700	DFB	1550	0.5	APD	-28	80	C,R,I
SP-4F-SX	4250	VCSEL	850	-5	PIN	-14	0.15	C
SP-4F-01	4250	DFB	1310	-5	PIN	-17.5	10	C
SP-4F-04	4250	DFB	1310	2	PIN	-17.5	40	C
SP-4F-08	4250	DFB	1550	2	APD	-24	80	C

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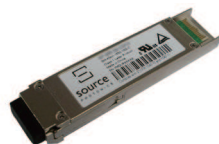
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SFP SGMII 100M 40km
C-tem Transceiver



XFP 10G 1550nm 40km
Transceiver



SFF 300 pin
Tunable Transponder

CWDM SFP Products

SFP	Data Rate (mb/s)	Tx	Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Sens (dBm)	Distance on SMF Fiber (Km)	Temperature Range
SPC-03-LR-xx	155	DFB	CWDM	-2.5	PIN	-34	80	C,I
SPC-03-ELR-xx	155	DFB	CWDM	2.5	PIN	-34	100	C
SPC-03-XLR-xx	155	DFB	CWDM	5	APD	-42	150	C
SPC-GB-XD-xx	1250	DFB	CWDM	-2.5	PIN	-22	50	C,I
SPC-GB-ZX-xx	1250	DFB	CWDM	2.5	PIN	-22	80	C,I
SPC-GB-EZX-xx	1250	DFB	CWDM	2.5	APD	-30	120	C,I
SPC-MR-EIR-xx	100 to 2700	DFB	CWDM	2.5	PIN	-18	50	C,I
SPC-MR-LR-xx	100 to 2700	DFB	CWDM	2.5	APD	-28	80	C,I
SPC-4F-01-xx	4250	DFB	CWDM	-2.5	PIN	-16	10	C
SPC-4F-04-xx	4250	DFB	CWDM	2.5	PIN	-17.5	40	C
SPC-4F-08-xx	4250	DFB	CWDM	2.5	APD	-24	80	C

SGMII SFP Products

SFP	Data Rate (mb/s)	Tx	Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Sens (dBm)	Distance on MMF /SMF Fiber (Km)	Temperature Range ^a
SPG-FE-SX	125	VCSEL	850	-7	PIN	-24	2(MMF)	C
SPG-FE-FX	125	FP	1310	-17	PIN	-24	2(MMF)	C,I
SPG-FE-LX	125	FP	1310	-12	PIN	-28	10(SMF)	C,I
SPG-DR-FX	125/1250	FP	1310	-9(Gb)/-17(FE)	PIN	-22(Gb)/-28(FE)	0.5(Gb,MMF)/2(FE,MMF)	C,I
SPG-DR-LX	125/1250	FP	1310	-5(Gb)/-12(FE)	PIN	-22(Gb)/-28(FE)	10(SMF)	C,I
SPG-FE-LH	125	FP	1310	-2.5	PIN	-32	40(SMF)	C
SPG-FE-ZX	125	DFB	1550	-2.5	PIN	-32	80(SMF)	C
SPG-DR-LH	125/1250	DFB	1310	0(Gb)/-2.5(FE)	PIN	-22(Gb)/-28(FE)	40(SMF)	C
SPG-DR-ZX	125/1250	DFB	1550	2.5(Gb)/0(FE)	PIN	-22(Gb)/-28(FE)	80(SMF)	C

a) C: Commercial (-5 to 70C) R: Reduced Industrial (-20 to 85C) I: Industrial (-40 to 85C)

SFF 300-pin Products

SFF 300 Pin Tunable Transponder	Data Rate (Gb/s)	Tx	Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Sens (dBm)	Distance on SMF Fiber (Km)	Temperature Range
TP-TS-04-CDL5A	9.953 - 10.709	EML	1550	-1~2	PIN	-17	40	C
TP-TS-06-CDL5A	9.953 - 10.709	EML	1550	-2~2	APD	-24	65	C
TP-TS-08-CDL5A	9.953 - 10.709	EML	1550	3~6	APD	-24	80	C
TPD-TS-04-xxCDL5A	9.953 - 10.709	EML	DWDM	-1~2	PIN	-17	40	C
TPD-TS-08-xxCDL5A	9.953 - 10.709	EML	DWDM	0~4	APD	-24	80	C
TPT-MR-04-CCDL5A	9.953 - 11.3	InPMZ	Tunable	-2~2	PIN	-18	40	C
TPT-MR-08-CCDL5A	9.953 - 11.3	InPMZ	Tunable	3~6	APD	-25	80	C

SFP+ Products

SFP+	Data Rate (Gb/s)	Tx	Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Sens (dBm)	Distance on SMF Fiber (Km)	Temperature Range
SPP-10E-SR-CDFB	9.95 / 10.3	VCSEL	850	-3	PIN/CDR	-9.9	300m(OM3 MMF)	C
SPP-10E-LM-CDFA	9.95 / 10.3	FP	1310	-2	PIN	-6.5	220m(OM1 MMF)	C
SPP-10E-LR-CDFB	9.95 / 10.3	DFB	1310	-4	PIN	-12	10	C
SPPL-RO-XE-BX-CDFA	9.95-11.09 / 10.51	DFB	1270/1330	-8.2	PIN	-12.6	10	C
SPPL-OR-XE-BX-CDFA	9.95-11.09 / 10.51	DFB	1330/1270	-8.2	PIN	-12.6	10	C
SPP-8F-LR-IDFA	4.915-6.144	FP	1310	-8.4	PIN	-13.8	2	I
SPP-8F-LR-IDFB	4.915-6.144	DFB	1310	-8.4	PIN	-13.8	15	I

XFP Products

XFP	Data Rate (Gb/s)	Tx	Wavelength (nm)	Typ. Tx Power (dBm)	Rx	Rx Sens (dBm)	Distance on SMF Fiber (Km)	Temperature Range
XP-XE-SR-CDFA	10.3 (Ethernet)	VCSEL	850	-3	PIN	-9.9	300m	C
XP-XE-01-CDFB	10.3 (Ethernet)	DFB	1310	-3	PIN	-12	10	C
XP-XE-01-IDFB	10.3 (Ethernet)	DFB	1310	-3	PIN	-12	10	I
XP-MR-01-CDFB	9.95 - 11.3 (SONET/SDH)	DFB	1310	-3	PIN	-12	10	C
XP-XE-04-CDFA	10.3 (Ethernet)	EML	1550	0.5	PIN	-16	40	C
XP-XE-04-IDFA	10.3 (Ethernet)	EML	1550	0.5	PIN	-16	40	I
XP-MR-04-CDFA	9.95 - 11.3 (SONET/SDH)	EML	1550	0.5	PIN	-16	40	C
XP-MR-04-IDFA	9.95 - 11.3 (SONET/SDH)	EML	1550	0.5	PIN	-16	40	I
XPD-MR-04-xxCDFA	9.95 - 11.3 (SONET/SDH)	EML	DWDM	0.5	PIN	-16	40	C
XPD-MR-04-xxIDFA	9.95 - 11.3 (SONET/SDH)	EML	DWDM	0.5	PIN	-16	40	I
XP-MR-08-CDFA	9.95 - 11.3 (SONET/SDH)	EML	1550	2	APD	-24	80	C
XP-MR-08-IDFA	9.95 - 11.3 (SONET/SDH)	EML	1550	2	APD	-24	80	I
XPD-MR-08-xxCDFA	9.95 - 11.3 (SONET/SDH)	EML	DWDM	2	APD	-24	80	C
XPD-MR-08-xxIDFA	9.95 - 11.3 (SONET/SDH)	EML	DWDM	2	APD	-24	80	I