



SFP – Small Form Pluggable - Ethernet Modules

Model Number	Single/ Multimode/ Copper	Fibers	Distance	Wavelength nm Tx/Rx	DataRate Mb/s	Tx Power dBm	Rx Sensi- tivity dBm	Rx Max In Pwr dBm	Loss Budget dB	Con- nector	DMI Yes/No	Compa- tibility	Case Temp °C
Copper 100/1000													
SFP-TX-100	Copper without LOS	Cat5	100m	NA	100	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
SFP-TX	Copper without LOS	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
Multimode 100/1000													
SFP-FX	Multi 62um	2	2km	1310/1310	100	-8 to-15	-30	-3	15	LC	Yes	MSA	-40 to +85
SFP-FX- CISCO* ³	Multi 62um	2	2km	1310/1310	100	-8 to-15	-30	-3	15	LC	Yes	MSA	-40 to +85
SFP-SX	Multi 50um* ¹	2	550m	850/850	1000	-3 to-10	-18	-3	8	LC	Yes	MSA	-40 to +85
SFP-SX- CISCO* ³	Multi 50um* ¹	2	550m	850/850	1000	-3 to-10	-18	-3	8	LC	Yes	MSA	-40 to +85
SFP-LX-2	Multi 50um* ²	2	2km	1310/1310	1000	-3 to-10	-22	-3	12	LC	Yes	MSA	-40 to +85
SFP-LX-2- CISCO* ³	Multi 50um* ²	2	2km	1310/1310	1000	-3 to-10	-22	-3	12	LC	Yes	MSA	-40 to +85
SFP-FX1-2A	Multi 62um	1	2km	1310/1550	100	-8 to-15	-34	-3	19	LC	Yes	MSA	-40 to +85
SFP-FX1-2B	Multi 62um	1	2km	1550/1310	100	-8 to-15	-34	-3	19	LC	Yes	MSA	-40 to +85
SFP-LX1-1A	Multi 62um	1	550m	1310/1550	1000	-3 to-8	-22	-3	14	LC	Yes	MSA	-40 to +85
SFP-LX1-1B	Multi 62um	1	550m	1550/1310	1000	-3 to-8	-22	-3	14	LC	Yes	MSA	-40 to +85

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Model Number	Single/ Multimode/ Copper	Fibers	Distance	Wavelength nm Tx/Rx	DataRate Mb/s	Tx Power dBm	Rx Sensi- tivity dBm	Rx Max In Pwr dBm	Loss Budget dB	Con- nector	DMI Yes/No	Compa- tibility	Case Temp °C
Singlemode 100/1000													
SFP-FX-15	Singlemode	2	15km	1310/1310	100	-8 to-15	-34	-6	19	LC	Yes	MSA	-40 to +85
SFP-FX-15- CISCO ^{*3}	Singlemode	2	15km	1310/1310	100	-8 to-15	-34	-6	19	LC	Yes	MSA	-40 to +85
SFP-LX	Singlemode	2	10km	1310/1310	1000	-3 to-8	-22	-3	14	LC	Yes	MSA	-40 to +85
SFP-LX- CISCO ^{*3}	Singlemode	2	10km	1310/1310	1000	-3 to-8	-22	-3	14	LC	Yes	MSA	-40 to +85
SFP-LX-40	Singlemode	2	40km	1310/1310	1000	0 to-5	-25	-3	20	LC	Yes	MSA	-40 to +85
SFP-LX-40- CISCO ^{*3}	Singlemode	2	40km	1310/1310	1000	0 to-5	-25	-3	20	LC	Yes	MSA	-40 to +85
SFP-ZX	Singlemode	2	80km	1550/1550	1000	0 to5	-24	-3	24	LC	Yes	MSA	-40 to +85
SFP-FX1-20A	Singlemode	1	20km	1310/1550	100	-8 to-15	-34	-6	19	LC	Yes	MSA	-40 to +85
SFP-FX1-20B	Singlemode	1	20km	1550/1310	100	-8 to-15	-34	-6	19	LC	Yes	MSA	-40 to +85
SFP-LX1-20A	Singlemode	1	20km	1310/1550	1000	-3 to-8	-22	-3	14	LC	Yes	MSA	-40 to +85
SFP-LX1-20B	Singlemode	1	20km	1550/1310	1000	-3 to-8	-22	-3	14	LC	Yes	MSA	-40 to +85
CWDM 1000													
SFP-1470-40	Singlemode	2	40km	1470	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1490-40	Singlemode	2	40km	1490	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1510-40	Singlemode	2	40km	1510	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1530-40	Singlemode	2	40km	1530	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1550-40	Singlemode	2	40km	1550	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1570-40	Singlemode	2	40km	1570	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1590-40	Singlemode	2	40km	1590	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1610-40	Singlemode	2	40km	1610	1000	-5 to 0	-25	-2	20	LC	Yes	MSA	-40 to +85
SFP-1470-80	Singlemode	2	80km	1470	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1490-80	Singlemode	2	80km	1490	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1510-80	Singlemode	2	80km	1510	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85

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Model Number	Single/ Multimode/ Copper	Fibers	Distance	Wavelength nm Tx/Rx	DataRate Mb/s	Tx Power dBm	Rx Sensi- tivity dBm	Rx Max In Pwr dBm	Loss Budget dB	Con- nector	DMI Yes/No	Compa- tibility	Case Temp °C
SFP-1530-80	Singlemode	2	80km	1530	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1550-80	Singlemode	2	80km	1550	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1570-80	Singlemode	2	80km	1570	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1590-80	Singlemode	2	80km	1590	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1610-80	Singlemode	2	80km	1610	1000	0 to 5	-25	0	25	LC	Yes	MSA	-40 to +85
SFP-1470-120	Singlemode	2	120km	1470	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1490-120	Singlemode	2	120km	1490	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1510-120	Singlemode	2	120km	1510	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1530-120	Singlemode	2	120km	1530	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1550-120	Singlemode	2	120km	1550	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1570-120	Singlemode	2	120km	1570	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1590-120	Singlemode	2	120km	1590	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
SFP-1610-120	Singlemode	2	120km	1610	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
Multimode 10G SFP+													
SFP+850-300	Multi 50um	2	300m	850	10G	-7 to -1	-10	-1	3	LC	Yes	MSA	-40 to +85
Singlemode 10G SFP+													
SFP+1310-10	Singlemode	2	10km	1310	10G	-8 to 0	-14	0.5	6	LC	Yes	MSA	-40 to +85
SFP+1310-40	Singlemode	2	40km	1310	10G	1 to 6	-13	0.5	14	LC	Yes	MSA	-40 to +85

*1. 550m using OM2 50/125µm fiber, 220m using OM1 62.5/125µm fiber, (1000m using OM3 or OM4 50/125µm fiber)

*2. 2Km using OM2 50/125µm fiber, 1Km using OM1 62.5/125µm fiber

*3. Cisco compatible SFP. Call sales for Cisco compatible SFPs not on this table.

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SFP – Small Form Pluggable - TAA Compliant - Ethernet Modules

Model Number	Single/Multimode/Copper	Fibers	Distance	Wavelength nm Tx/Rx	DataRate Mb/s	Tx Power dBm	Rx Sensitivity dBm	Rx Max In Pwr dBm	Loss Budget dB	Connector	DMI Yes/No	Compatibility	Case Temp °C
Copper 100/1000													
SFP-TX1A	Copper	Cat5	100m	NA	Triple Sp	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
SFP-TX1AH	Copper	Cat5	100m	NA	Triple Sp	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
SFP-TX1B ^{*3}	Copper	Cat5	100m	NA	Triple Sp	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
SFP-TX1BH ^{*3}	Copper	Cat5	100m	NA	Triple Sp	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
SFP-TX2A	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
SFP-TX2AH	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
SFP-TX2B ^{*4}	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
SFP-TX2BH ^{*4}	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
SFP-TX2C ^{*5}	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
SFP-TX2CH ^{*5}	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	-40 to +85
100BASE-FX													
SFP-OC3MD	Multimode	2	2Km	1310	100	-20 to -14	-28	-8	12	LC	Yes	MSA	0 to +50
SFP-OC3MDH	Multimode	2	2Km	1310	100	-20 to -14	-28	-8	12	LC	Yes	MSA	-40 to +85
SFP-OC3SD2	Multimode	2	20Km	1310	100	-15 to -8	-29	-8	14	LC	Yes	MSA	0 to +50
SFP-OC3SD2H	Singlemode	2	20Km	1310	100	-15 to -8	-29	-8	14	LC	Yes	MSA	-40 to +85
SFP-OC3SD4	Singlemode	2	40Km	1310	100	-7 to -2	-32	-10	25	LC	Yes	MSA	0 to +50
SFP-OC3SD4H	Singlemode	2	40Km	1310	100	-7 to -2	-32	-10	25	LC	Yes	MSA	-40 to +85

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SFP-OC3SD21	Singlemode	1	20Km	1310/1550	100	-15 to -7	-28	-8	13	LC	Yes	MSA	-40 to +85
SFP-OC3SD21H	Singlemode	1	20Km	1550/1310	100	-15 to -7	-28	-8	13	LC	Yes	MSA	-40 to +85
1000BASE-SX													
SFP-SXD	Multimode	2	550m ^{*1}	850	1000	-9 to -3	-17	0	5	LC	Yes	MSA	0 to +50
SFP-SXDH	Multimode	2	550m ^{*1}	850	1000	-9 to -3	-17	0	5	LC	Yes	MSA	-40 to +85
SFP-ESXD	Multimode	2	2Km ^{*2}	850	1000	-5 to 0	-20	0	15	LC	Yes	MSA	0 to +50
SFP-ESXDH	Multimode	2	2Km ^{*2}	850	1000	-5 to 0	-20	0	15	LC	Yes	MSA	-40 to +85
SFP-ESX1D	Multimode	1	2Km	1310/1550	1000	-11 to -3	-19	-3	8	LC	Yes	MSA	-40 to +85
SFP-ESXD1H	Multimode	1	2Km	1550/1310	1000	-11 to -3	-19	-3	8	LC	Yes	MSA	-40 to +85
1000BASE-LX													
SFP-LXD1	Singlemode	2	10Km	1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	0 to +50
SFP-LXD1H	Singlemode	2	10Km	1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	-40 to +85
SFP-LXD2	Singlemode	2	20Km	1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	0 to +50
SFP-LXD2H	Singlemode	2	20Km	1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	-40 to +85
SFP-LXD4	Singlemode	2	40Km	1310	1000	-5 to 0	-24	0	19	LC	Yes	MSA	0 to +50
SFP-LXD4H	Singlemode	2	40Km	1310	1000	-5 to 0	-24	0	19	LC	Yes	MSA	-40 to +85
SFP-LXD21H	Singlemode	1	20Km	1310/1550	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	-40 to +85
SFP-LXD22H	Singlemode	1	20Km	1550/1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	-40 to +85
10GBASE-SR													
SFPP-10GSRD	Multimode	2	300m	850	10G	-6 to -1	-10	0.5	1	LC	Yes	MSA	0 to +50
SFPP-10GSRDH	Multimode	2	300m	850	10G	-6 to -1	-10	0.5	1	LC	Yes	MSA	-40 to +85
10GBASE-LR													
SFPP-10GLRD1	Singlemode	2	10Km	1310	10G	-6 to -0.5	-14.4	0.5	8.4	LC	Yes	MSA	0 to +50
SFPP-10GLRD1H	Singlemode	2	10Km	1310	10G	-6 to -0.5	-14.4	0.5	8.4	LC	Yes	MSA	-40 to +85

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SFPP-10GLRD2	Singlemode	2	20Km	1310	10G	-6 to -1	-14.4	0.5	8.4	LC	Yes	MSA	0 to +50
SFPP-10GLRD2H	Singlemode	2	20Km	1310	10G	-6 to -1	-14.4	0.5	8.4	LC	Yes	MSA	-40 to +85
SFPP-10GLRD4	Singlemode	2	40Km	1550	10G	-1 to -3	-15.8	0.5	14.8	LC	Yes	MSA	0 to +50
SFPP-10GLRD4H	Singlemode	2	40Km	1550	10G	-1 to -3	-15.8	0.5	14.8	LC	Yes	MSA	-40 to +85

*1. 550m using OM2 50/125µm fiber, 220m using OM1 62.5/125µm fiber, (1000m using OM3 or OM4 50/125µm fiber)

*2. 2Km using OM2 50/125µm fiber, 1Km using OM1 62.5/125µm fiber

*3. Cisco compatible SFP.

*4. Cisco, Nexus, Huawei compatible SFP

*5. HP compatible SFP

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