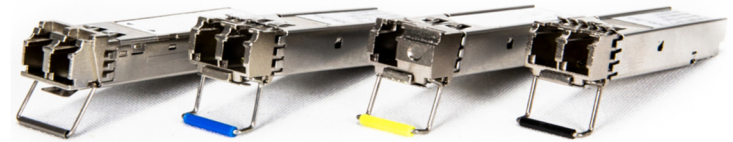




## SFP – Small Form Pluggable - Ethernet Modules



### SFP MSA Compliant Modules – General Purpose and TAA Compliant

Small Form-factor Pluggable (SFP) Multi-Source Agreement (MSA) devices are compact and interchangeable optical and electrical transceiver modules used in data communication and telecommunications networks. These devices adhere to a standardized MSA, ensuring compatibility across various networking equipment from different manufacturers. SFP MSAs support a wide range of transmission speeds and can be hot-swapped without disrupting network operations, making them highly versatile and convenient for network administrators. They typically feature a small footprint, low power consumption, and are available in various types, including SFP, SFP+, and SFP28, to accommodate different network requirements. SFP MSA devices play a crucial role in enabling flexible and scalable network designs while maintaining interoperability and reliability.

#### Ethernet (100M/ 1G / 10G) Transceiver Modules:

- Copper RJ45 Modules (10/100/1000)
- Dual Fiber Strands LC SFP Modules
- CWDM Dual Fiber Strands LC SFP Modules
- Single Fiber Strand (Bi-Di) LC SFP Modules - SC available
- Various wavelengths: 850nm, 1310nm, 1550nm plus CWDM and DWDM
- Distances up to 120km
- Digital Diagnostic Monitoring (DDM)
- Compliant with SFF-8472
- Normal Operating Temperature 0 to +70 Celsius
- Industrial Operating Temperature -40 to +85 Celsius
- Compatible to major equipment vendors (via programming)

AMERICAN FIBERTEK, INC.

745 43<sup>RD</sup> STREET SOUTH, SAINT PETERSBURG FLORIDA 33711

email: [mail@americanfibertek.com](mailto:mail@americanfibertek.com)

phone: (800) 323-0660

# SFP – Ethernet Modules – General Purpose

Model Number	Single/ Multimode/ Copper	Fibers	Distance	Wavelength nm Tx/Rx	Data Rate 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
<b>Copper 100/1000</b>													
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
<b>Multimode 100/1000</b>													
SFP-FX	Multi 62um	2	2km	1310/1310	100	-8 to-15	-30	-3	15	LC	Yes	MSA	-40 to +85
SFP-SX	Multi 50um* <sup>1</sup>	2	550m	850/850	1000	-3 to-10	-18	-3	8	LC	Yes	MSA	-40 to +85
SFP-LX-2	Multi 50um* <sup>2</sup>	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
<b>Singlemode 100/1000</b>													
SFP-FX-15	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-40	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

AMERICAN FIBERTEK, INC.

745 43<sup>RD</sup> STREET SOUTH, SAINT PETERSBURG FLORIDA 33711

email: mail@americanfibertek.com

phone: (800) 323-0660

Model Number	Single/Multimode/Copper	Fibers	Distance	Wavelength nm Tx/Rx	Data Rate Mb/s	Tx Power dBm	Rx Sensitivity dBm	Rx Max In Pwr dBm	Loss Budget dB	Connector	DMI Yes/No	Compatibility	Case Temp °C
<b>CWDM 1000</b>													
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
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

## AMERICAN FIBERTEK, INC.

745 43<sup>RD</sup> STREET SOUTH, SAINT PETERSBURG FLORIDA 33711

email: [mail@americanfibertek.com](mailto:mail@americanfibertek.com)

phone: (800) 323-0660

Model Number	Single/Multimode/Copper	Fibers	Distance	Wavelength nm Tx/Rx	Data Rate Mb/s	Tx Power dBm	Rx Sensitivity dBm	Rx Max In Pwr dBm	Loss Budget dB	Connector	DMI Yes/No	Compatibility	Case Temp °C
SFP-1610-120	Singlemode	2	120km	1610	1000	0 to 5	-32	-9	32	LC	Yes	MSA	-40 to +85
<b>Multimode 10G SFP+</b>													
SFP+850-300	Multi 50um	2	300m	850	10G	-7 to -1	-10	-1	3	LC	Yes	MSA	-40 to +85
<b>Singlemode 10G SFP+</b>													
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

Add "-C" to the end of the part number for Cisco compatible programming.

**AMERICAN FIBERTEK, INC.**  
745 43<sup>RD</sup> STREET SOUTH, SAINT PETERSBURG FLORIDA 33711  
email: [mail@americanfibertek.com](mailto:mail@americanfibertek.com)      phone: (800) 323-0660

# SFP – Ethernet Modules – TAA Compliant

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
<b>Copper 100/1000</b>													
SFP-T1A	Copper	Cat5	100m	NA	Triple Sp	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
SFP-T2A	Copper	Cat5	100m	NA	1000	NA	NA	NA	NA	RJ45	No	MSA	0 to +50
<b>100BASE-FX</b>													
SFP-OC3MD	Multimode	2	2Km	1310	100	-20 to -14	-28	-8	12	LC	Yes	MSA	0 to +50
SFP-OC3SD2	Multimode	2	20Km	1310	100	-15 to -8	-29	-8	14	LC	Yes	MSA	0 to +50
SFP-OC3SD4	Singlemode	2	40Km	1310	100	-7 to -2	-32	-10	25	LC	Yes	MSA	0 to +50
SFP-OC3SD21	Singlemode	1	20Km	1310/1550	100	-15 to -7	-28	-8	13	LC	Yes	MSA	0 to +50
SFP-OC3SD22	Singlemode	1	20Km	1550/1310	100	-15 to -7	-28	-8	13	LC	Yes	MSA	0 to +50
<b>1000BASE-SX</b>													
SFP-SXD	Multimode	2	550m* <sup>1</sup>	850	1000	-9 to -3	-17	0	5	LC	Yes	MSA	0 to +50
SFP-ESXD	Multimode	2	2Km* <sup>2</sup>	1310	1000	-5 to 0	-20	0	15	LC	Yes	MSA	0 to +50
SFP-ESXD1	Multimode	1	2Km* <sup>2</sup>	1310/1550	1000	-11 to -3	-19	-3	8	LC	Yes	MSA	0 to +50
SFP-ESXD2	Multimode	1	2Km* <sup>2</sup>	1550/1310	1000	-11 to -3	-19	-3	8	LC	Yes	MSA	0 to +50
<b>1000BASE-LX</b>													
SFP-LXD1	Singlemode	2	10Km	1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	0 to +50
SFP-LXD2	Singlemode	2	20Km	1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	0 to +50
SFP-LXD4	Singlemode	2	40Km	1310	1000	-5 to 0	-24	0	19	LC	Yes	MSA	0 to +50
SFP-LXD21	Singlemode	1	20Km	1310/1550	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	0 to +50
SFP-LXD22	Singlemode	1	20Km	1550/1310	1000	-9 to -3	-20	-3	11	LC	Yes	MSA	0 to +50
<b>10GBASE-SR</b>													
SFP-10GSRD	Multimode	2	300m	850	10G	-6 to -1	-10	0.5	1	LC	Yes	MSA	0 to +50

AMERICAN FIBERTEK, INC.

745 43<sup>RD</sup> STREET SOUTH, SAINT PETERSBURG FLORIDA 33711

email: mail@americanfibertek.com

phone: (800) 323-0660

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
<b>10GBASE-LR</b>													
SFPP-10GLRD1	Singlemode	2	10Km	1310	10G	-6 to -0.5	-14.4	0.5	8.4	LC	Yes	MSA	0 to +50
SFPP-10GLRD2	Singlemode	2	20Km	1310	10G	-6 to -1	-14.4	0.5	8.4	LC	Yes	MSA	0 to +50
SFPP-10GLRD4	Singlemode	2	40Km	1550	10G	-1 to -3	-15.8	0.5	14.8	LC	Yes	MSA	0 to +50
SFPP-10GLRD11	Singlemode	1	10Km	1270/1310	1/2/4/8/10G	-5 to 0	-14	0.5	9	LC	Yes	MSA	0 to +50
SFPP-10GLRD12	Singlemode	1	10Km	1310/1270	1/2/4/8/10G	-5 to 0	-14	0.5	9	LC	Yes	MSA	0 to +50
SFPP-10GERD4	Singlemode	2	40Km	1550nm	1/2/4/8/10G	-1 to -3	-15.8	0.5	14.8	LC	Yes	MSA	0 to +50
<b>40GBASE-LR</b>													
QSFP-40G-LR4	Singlemode	2	10Km	1270-1330nm	40G (4 x 10G)	-7 to 2.3	-11.5	2.3	4.5	LC	Yes	MSA	0 to +70
<b>100GBASE-LR</b>													
QSFP-100G-CLR4L	Singlemode	2	2Km	1270-1330nm	100G (4 x 25G)	-6.5 to 2.5	-11.5	2.5	5	LC	Yes	MSA	0 to +70

\*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

Add an "H" to the end of the part number for industrial temperature range -20 - +85C.

Add a "C" to the end of the part number for Cisco compatible programming.

**AMERICAN FIBERTEK, INC.**  
**745 43<sup>RD</sup> STREET SOUTH, SAINT PETERSBURG FLORIDA 33711**  
 email: [mail@americanfibertek.com](mailto:mail@americanfibertek.com)      phone: (800) 323-0660