



## Fiber Transceiver

### Hot-Pluggable Fiber Transceiver Modules

SFP Transceivers are high performance, cost effective modules for serial optical data communications applications specified for a single mode at 1.25/2.5Gbps. They operate with +3.3V/5V power supplies and are intended for single mode or multi-mode fiber, operating at a nominal wavelength of 1310(850) nm. Each SFP Transceiver consists of a transmitter optical subassembly, a receiver optical subassembly and an electrical subassembly. SFP Transceivers are duplex SC/ LC transceiver designed for use in Gigabit Ethernet and to provide an IEEE-802.3z compliant link for 1.25/2.5Gbps short or long reach applications.

### Features

- SFP & SFP+ Multi-Source Agreement compliant
- Single 3.3V power supply
- Duplex or Simplex LC receptacle connector
- Up to 10Gb/s bi-directional data links
- Class 1 laser safety standard IEC825 compliant
- Hot Pluggable
- Lower power dissipation

### 155Mbps 100Base-X Dual fiber SFP

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI
SFM-5000-L31	1310	MMF	-20~-14	-32	12	2km	
SFM-5000-L31-DD	1310	MMF	-20~-14	-32	12	2km	✓
SFS-5030-L31	1310	SMF	-15~-8	-34	19	30km	
SFS-5030-L31-DD	1310	SMF	-15~-8	-34	19	30km	✓
SFS-5050-L31	1310	SMF	-5~0	-35	30	50km	
SFS-5050-L31-DD	1310	SMF	-5~0	-35	30	50km	✓

### 155Mbps 100Base-BX, Single fiber Bi-Directional SFP

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI
SFS-5020-WA	T1310 / R1550	SMF	-14~-8	-32	18	20km	
SFS-5020-WA-DD	T1310 / R1550	SMF	-14~-8	-32	18	20km	✓
SFS-5020-WB	T1550 / R1310	SMF	-14~-8	-32	18	20km	
SFS-5020-WB-DD	T1550 / R1310	SMF	-14~-8	-32	18	20km	✓

### 1.25Gbps (1000Base-X, Fiber Channel) SFP

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI
SFM-7000-S85	850	MMF	-9.5~-4	-17	7.5	550m	
SFM-7000-S85-DD	850	MMF	-9.5~-4	-17	7.5	550m	✓
SFM-7000-L31	1310	MMF	-9~-1	-19	10	2km	
SFM-7000-L31-DD	1310	MMF	-9~-1	-19	10	2km	✓
SFS-7010-L31	1310	SMF	-9.5~-3	-20	10.5	10km	
SFS-7010-L31-DD	1310	SMF	-9.5~-3	-20	10.5	10km	✓
SFS-7020-L31	1310	SMF	-8~-2	-23	15	20km	
SFS-7020-L31-DD	1310	SMF	-8~-2	-23	15	20km	✓
SFS-7030-L31	1310	SMF	-7~-1	-24	17	30km	
SFS-7030-L31-DD	1310	SMF	-7~-1	-24	17	30km	✓
SFS-7040-L31	1310	SMF	-2~3	-23	21	40km	
SFS-7040-L31-DD	1310	SMF	-2~3	-23	21	40km	✓

### 1.25Gbps (1000Base-X, Single Fiber Bi-Directional) SFP

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI
SFS-7020-WA	T1310 / R1550	SMF	-7~-2	-22	15	20km	
SFS-7020-WA-DD	T1310 / R1550	SMF	-7~-2	-22	15	20km	✓
SFS-7020-WB	T1550 / R1310	SMF	-7~-2	-22	15	20km	
SFS-7020-WB-DD	T1550 / R1310	SMF	-7~-2	-22	15	20km	✓
SFS-7040-WA	T1310 / R1550	SMF	-3~-2	-23	20	40km	
SFS-7040-WA-DD	T1310 / R1550	SMF	-3~-2	-23	20	40km	✓
SFS-7040-WB	T1550 / R1310	SMF	-3~-2	-23	20	40km	
SFS-7040-WB-DD	T1550 / R1310	SMF	-3~-2	-23	20	40km	✓

### 10Gbps SFP+

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI
SFM-1000-SR85	850	MMF	-6.5~-1	-11.1	4.6	300m	✓
SFS-1010-LR31	1310	SMF	-8.2~-0.5	-14.4	6.2	10km	✓
SFS-1040-LR31	1550	SMF	-3~-3	-15.8	12.8	40km	✓

### 10Gbps XFP

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI
XFM-1000-SR85	850	MMF	-6.5~-1	-11.1	4.6	300m	✓
XFS-1010-LR31	1310	SMF	-8~0	-14.4	4.6	10km	✓
XFS-1040-ER55	1550	SMF	-3~-3	-15.8	11.1	40km	✓

#### SFP Naming Rule

