



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

