



SFP Fiber Transceiver

(40Gbps/16Gbps/10Gbps)

Hot-Pluggable Fiber Transceiver Modules

SFP+ and QSFP+ Transceivers are high performance, multi-purpose modules for optical data communications applications specified for multi-mode or single mode at 10Gbps/40Gbps. They operate with +3.3V/5V power supplies and are intended for single mode or multi-mode fiber, operating at a nominal wavelength of 850nm, 1310nm and 1550nm or CWDM/DWDM wavelength. Each SFP+ Transceiver consists of a transmitter optical subassembly, a receiver optical subassembly and an electrical subassembly. SFP+ Transceivers are duplex LC transceiver designed for use in 10Gbps / 40Gbps short or long reach applications.

Feature

- Compliant to SFF-8436 QSFP+ MSA (40G QSFP)
- Single 3.3V power supply
- Duplex or Simplex LC receptacle connector
- Built-in digital diagnostic function
- Single 3.3V power supply
- RoHS compliant
- Lower power dissipation
- Hot Pluggable

40Gbps QSFP+

• QSFP+ MPO

Model Name	Wavelength(nm)	Media	Data Rate (Gbit/s)	40G Base	Distance	DDMI	TX Min (dBm)	TX Max (dBm)	Rx Sensitivity (dBm)	Operation Temperature
QSFP-000-SR4	850nm VCSEL	MMF	40G	SR4	100m	✓	-7.6	-1	-12	0~70°C
QSFP-000-eSR4	850nm VCSEL	MMF	40G	eSR4	300m	✓	-7.3	-1	-12.5	0~70°C
QSFP-010-LR4	DFB CWDM (1271,1291,1311,1331)nm	SMF	40G	LR4	10km	✓	-7	2.3	-11.5	0~70°C
QSFP-040-ER4	DFB CWDM (1271,1291,1311,1331)nm	SMF	40G	ER4	40km	✓	-3.7	4.5	-11.5	0~70°C

16G FC SFP+

• 14.025Gbps

Model Name	Wavelength(nm)	Data Rate (Gbit/s)	FC	Distance	DDMI	TX Min (dBm)	TX Max (dBm)	Rx Sensitivity (dBm)	Operation Temperature
SFM-3000-S85	850nm VCSEL	MMF	16G/ 8G/4G	35/100/120m	✓	-6	-1	-11.1	0~70 °C
SFS-3010-L31	1310nm DFB	SMF	16G/ 8G/4G	10km	✓	-8	0	-15	0~70 °C
SFS-3040-E55	1550nm EML	SMF	16G/ 8G/4G	40km	✓	0	4	-15.8	0~70 °C

10Gbps XFP

• Dual Fiber XFP / 10G Ethernet, SONET OC192, SDH STM-64

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI	Operation Temperature
XFM-1000-SR85	850	MMF	-1 ~ -7.1	< -9.9	2.8	300m	✓	0~70°C
XFS-1010-LR31	1310	SMF	-1 ~ -6	< -14.4	8.4	10km	✓	0~70°C
XFS-1020-LR31	1310	SMF	+0.5 ~ -3	< -15	12	20km	✓	0~70°C
XFS-1040-ER55	1550	SMF	+5 ~ +1	< -15	16	40km	✓	0~70°C
XFS-1080-ZR55	1550	SMF	+4 ~ 0	< -23	23	80km	✓	0~70°C

• CWDM Dual Fiber XFP / 10G Ethernet, SONET OC192, SDH STM-64

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI	Operation Temperature
XFS-1040-CXX-DD	1470 ~ 1610nm	SMF	+2 ~ -1	< -16	15	40km	✓	0~70°C
XFS-1070-CXX-DD	1470 ~ 1610nm	SMF	+4 ~ 0	< -23	23	70km	✓	0~70°C

• DWDM 100GHz Dual Fiber XFP / 10G Ethernet, SONET OC192, SDH STM-64

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI	Operation Temperature
XFS-1040-DW-CXX	C17 ~ C61	SMF	+2 ~ -1	<-16	15	40km	✓	0~ 70°C
XFS-1080-DW-CXX	C17 ~ C61	SMF	+4 ~ 0	<-23	23	80km	✓	0~ 70°C

10Gbps SFP+

• Dual Fiber SFP+ / 10G Ethernet, SONET OC192, SDH STM-64

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI	Operation Temperature
SFM-1000-SR85	850	MMF	-1 ~ -7.1	-9.9	2.8	300m	✓	0~ 70°C
SFS-1010-LR31	1310	SMF	+0.5 ~ -6	-14.4	8.4	10km	✓	0~ 70°C
SFS-1020-LR31	1310	SMF	+0.5 ~ -3	-15	12	20km	✓	0~ 70°C
SFS-1040-ER55	1550	SMF	+4 ~ -4.7	-15.8	11.1	40km	✓	0~ 70°C
SFS-1080-ZR55	1550	SMF	+4 ~ 0	-23	23	80km	✓	0~ 70°C

• CWDM Dual Fiber SFP+ / 10G Ethernet, SONET OC192, SDH STM-64

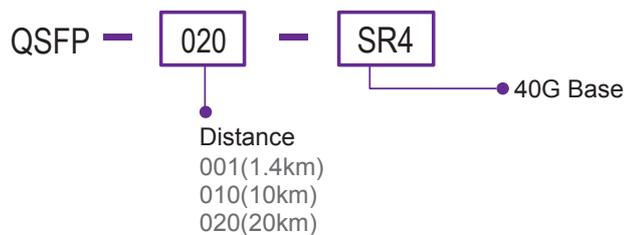
Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI	Operation Temperature
SFS-1040-CXX-DD	1470 ~ 1610nm	SMF	+4 ~ -1	<-16	15	40km	✓	0~ 70°C
SFS-1080-CXX-DD	1470 ~ 1610nm	SMF	+4 ~ 0	<-23	23	80km	✓	0~ 70°C
SFS-1030-CXX-DD	1270 ~ 1450nm	SMF	+4 ~ -1	<-15	14	30km	✓	0~ 70°C
SFS-1060-CXX-DD	1270 ~ 1450nm	SMF	+4 ~ 0	<-22	22	60km	✓	0~ 70°C

• DWDM Dual Fiber SFP+ / 10G Ethernet, SONET OC192, SDH STM-64

Model Name	Wavelength(nm)	Media	Optical Power(dBm)	Sensitivity(dBm)	Power Budget(dB)	Distance	DDMI	Operation Temperature
SFS-1040-DW-CXX	C17 ~ C61	SMF	+2 ~ -1	<-16	15	40km	✓	0~ 70°C
SFS-1080-DW-CXX	C17 ~ C61	SMF	+4 ~ 0	<-23	23	80km	✓	0~ 70°C

Naming Rule

• 40G QSFP+



• 16G & 10G

