

SFP MODULE SYSTEM PRODUCTS

10G SFP+



FEATURE

- Class 1 laser product EN 60825-1 standards
- Operating data rate up to 10.3Gbps
- Compliant with MSA SFP+ Specification SFF-8431
- Duplex or Single LC connector
- Hot pluggable
- 3.3V Single Power Supply
- TTL signal detect indicator

APPLICATIONS

- 10GBASE-SR, LR, ER, ZR, ZX at 10.31 / 11.1Gbps
- SDH/SONET
- 1/10G and Multirate
- 10GBASE-LW at 9.95Gbps
- 1000 Base-LX Ethernet
- 8XFC at 8.5Gbps
- 4XFC at 4.25Gbps
- 2XFC at 2.125Gbps
- 1xFC at 1.0625Gbps
- Other optical links

STANDARD

- IEEE 802.3ae , EN 60825-1

DESCRIPTION

Model	Rate	Wavelength	Distance	Optical power	Sensitivity
MC-SFP+10GB-SR	10G	850nm	300m	-8.2~-1dBm	<-9.9dBm
MC-SFP+10GB-LR	10G	1310nm	10km	-6~-0.5dBm	<-14.4dBm
MC-SFP+10GB-ER	10G	1550nm	40km	-1~2dBm	<-14.4dBm
MC-SFP+10GB-ZR	10G	1550nm	80km	0~4dBm	<-23dBm
MC-SFP+ BIDI-12-10D	10G	TX1270nm	10km	-6~-1dBm	<-15dbm
MC-SFP+ BIDI-13-10D	10G	TX1330nm	10km	-6~-1dbm	<-15dBm
MC-SFP+ CWDM-XX-40D	10G	1470~1610nm	40km	-1~4dBm	<-15.5dBm
MC-SFP+ CWDM-XX-80D	10G	1470~1610nm	80km	0~5dBm	<-23.5dBm
MC-SFP+ DWDM-XX-40D	10G	DWDM	40km	-1~4dBm	<-15.5dBm
MC-SFP+ DWDM-XX-80D	10G	DWDM	80km	0~5dBm	<-23dBm



OVERVIEW

10G SFP+ include SR LR ER ZR, CWDM/DWDM,BIDI series,complaint with MSA, SFF-8472, SFF-8431,with the feature of low power consumption,commerical or industrial operation temperature and high reliability,suitable for DC,Metro,Wireless and Transmission networks.

REGULATORY COMPLIANCE

Feature	Standard	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883G Method 3015.7	Class 1C (>1000 V)
Electrostatic Discharge to the enclosure	EN 55024:1998+A1+A2 IEC-61000-4-2 GR-1089-CORE	Compliant with standards
Electromagnetic Interference (EMI)	FCC Part 15 Class B EN55022:2006 CISPR 22B :2006 VCCI Class B	Compliant with standards Noise frequency range: 30 MHz to 6 GHz. Good system EMI design practice required to achieve Class B margins. System margins depend on customer host board and chassis design.
Immunity	EN 55024:1998+A1+A2 IEC 61000-4-3	Compliant with standards. 1kHz sine-wave, 80% AM, from 80 MHz to 1 GHz. No effect on transmitter/receiver performance is detectable between these limits.
Laser Eye Safety	FDA 21CFR 1040.10 and 1040.11 EN (IEC) 60825-1:2007 EN (IEC) 60825-2:2004+A1	CDRH compliant and Class I laser product. TüV Certificate No. 50135086
Component Recognition	UL and CUL EN60950-1:2006	UL file E317337 TüV Certificate No. 50135086 (CB scheme)
RoHS6	2002/95/EC 4.1&4.2 2005/747/EC 5&7&13	Compliant with standards *note

ORDER INFORMATION

PRODUCT	PART NUMBER
850nm, 10Gbps, LC, 300m, 0°C~+70°C, With DDM	MC-SFP+10GB-SR
1310nm, 10Gbps, LC, 10km, 0°C~+70°C, With DDM	MC-SFP+10GB-LR
1550nm, 10Gbps, LC, 40km, 0°C~+70°C, With DDM	MC-SFP+10GB-ER
1550nm, 10Gbps, LC, 80km, 0°C~+70°C, With DDM	MC-SFP+10GB-ZR
Tx1270nm/Rx1330nm, 10Gbps, LC, 10km, 0°C~+70°C, With DDM	MC-SFP+ BIDI-12-10D
Tx1330nm/Rx1270nm, 10Gbps, LC, 10km, 0°C~+70°C, With DDM	MC-SFP+ BIDI-13-10D
1470nm~1610nm, 10Gbps, LC, 40km, 0°C~+70°C, With DDM	MC-SFP+ CWDM-XX-40D
1470nm~1610nm, 10Gbps, LC, 80km, 0°C~+70°C, With DDM	MC-SFP+ CWDM-XX-80D
DWDM, 10Gbps, LC, 40km, 0°C~+70°C, With DDM	MC-SFP+ DWDM-XX-40D
DWDM, 10Gbps, LC, 80km, 0°C~+70°C, With DDM	MC-SFP+ DWDM-XX-80D