

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



OVERVIEW

10G SFP+ include SR LR ER ZR, CWDM/DWDM,BIDI series,compliant 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.

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

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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