

10G XFP Transceiver Module

Transceiver Module



Specification

XFP optical module fully complies with the XFP MSA standard of version 4.5 and the power consumption is less than 3.5W. The working rate of XFP module is from 8.5Gbps to 11.3Gbps, which is suitable for Sonet/SDH, 10G Ethernet, Fibre Channel and G.707 OTN standards. XFP 10G transceiver module adopts high-reliability laser and PIN or APD receiving components, laser driver and supporting circuit at the transmitting end. An avalanche photo-diode (APD) or PIN ROSA and supporting circuits are used at the receiving end. A clock data recovery circuit (CDR) is also provided. XFP 10G has digital diagnostics (also known as digital optical inspection, DDM), which monitors optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage in real time. Compliant with IEC 60825-1 Class 1/CDRH Class 1 Laser Eye Safe and RoHS directive. IT is suitable for switches, routers, firewalls and other equipment. Widely used in telecommunications, data centers, security and military industries.

Functions and features

- Compliant with XFP MSA Rev. 4.5
- Support XFI loop-back mode
- Built-in digital diagnostic function
- Transmission distance up to 80KM
- Transmission rate up to 11.3Gbps
- Single fiber, dual fiber, CWDM, DWDM multiple specifications are available
- Meets IEC 60825-1 Class 1 or CDRH Class 1 Laser Safety Certification
- Compliant with RoHS-6 (lead-free), CE, FDA, FCC, TUV, UL standards
- Working temperature range: -5 °C ~ 70 °C
- Security transmission system
- Ethernet transmission system
- Data center transmission system
- Fibre Channel transmission system
- Routing / server interface system
- Switch-to-switch interface transmission system
- Other optical Cable Type transmission systems

Parameters

Model	Form Type	Wavelength	Rate	Cable Type	Inter- face	TX Power	Receiver Sensitivity	Distance	DDM
10G XFP									
VXF(D)-XG8SR	XFP	850nm	10Gbps	MMF	LC	(-6~-1) dBm	≤-11dBm	300m	Yes/No
VXF(D)-XG3SR	XFP	1310nm	10Gbps	SMF	LC	(-8~-1) dBm	≤-14dBm	2km	Yes/No
VXF(D)-XG3LRD	XFP	1310nm	10Gbps	SMF	LC	(-6~0) dBm	≤-14dBm	10km	Yes/No
VXF(D)-XG3ERD	XFP	1310nm	10Gbps	SMF	LC	(-1~3) dBm	≤-15dBm	40km	Yes/No
VXF(D)-XG5ERD	XFP	1550nm	10Gbps	SMF	LC	(-1~4) dBm	≤-16dBm	40km	Yes/No
VXF(D)-XG5ZRD	XFP	1550nm	10Gbps	SMF	LC	(0~4) dBm	≤-24dBm	80km	Yes/No
CWDM 10G XFP									
VXF(D)-XGCERD-XX	CWDM XFP	CWDM1270~1610nm	10Gbps	SMF	LC	(-1~3) dBm	≤-16dBm	40km	Yes/No
VXF(D)-XGCZRD-XX	CWDM XFP	CWDM1270~1610nm	10Gbps	SMF	LC	(0~4) dBm	≤-24dBm	80km	Yes/No
DWDM 10G XFP									
VXF(D)-XGDERD-CXX	DWDM XFP	ITU-GRID DWDM	10Gbps	SMF	LC	(-1~3) dBm	≤-16dBm	40km	Yes/No
VXF(D)-XGDZRD-CXX	DWDM XFP	ITU-GRID DWDM	10Gbps	SMF	LC	(0~4) dBm	≤-24dBm	80km	Yes/No
BIDI 10G XFP									
VBX(D)-XG23LRD	BIDI XFP	Tx1270/Rx1330nm	10Gbps	SMF	LC	(-6~-1) dBm	≤-14dBm	10km	Yes/No
VBX(D)-XG32LRD	BIDI XFP	Tx1330/Rx1270nm	10Gbps	SMF	LC	(-6~-1) dBm	≤-14dBm	10km	Yes/No
VBX(D)-XG23LRD	BIDI XFP	Tx1270/Rx1330nm	10Gbps	SMF	LC	(-2~-2) dBm	≤-14dBm	20km	Yes/No
VBX(D)-XG32LRD	BIDI XFP	Tx1330/Rx1270nm	10Gbps	SMF	LC	(-2~-2) dBm	≤-14dBm	20km	Yes/No
VBX(D)-XG23ERD	BIDI XFP	Tx1270/Rx1330nm	10Gbps	SMF	LC	(0~5) dBm	≤-15dBm	40km	Yes/No
VBX(D)-XG32ERD	BIDI XFP	Tx1330/Rx1270nm	10Gbps	SMF	LC	(0~5) dBm	≤-15dBm	40km	Yes/No
VBX(D)-XG23ERD	BIDI XFP	Tx1270/Rx1330nm	10Gbps	SMF	LC	(0~5) dBm	≤-20dBm	60km	Yes/No
VBX(D)-XG32ERD	BIDI XFP	Tx1330/Rx1270nm	10Gbps	SMF	LC	(0~5) dBm	≤-20dBm	60km	Yes/No