

XFP-MR10G-ZR120D

10GBase XFP Transceiver, 1550nm Single-mode 120km Reach

DESCRIPTION

This Fiberworks 10 Gigabit Small Form Factor Pluggable (XFP) transceiver is compliant with the current XFP Multi-Source Agreement (MSA) Specification, and simultaneously comply with 10 Gigabit Ethernet 10GBASE-ZR/ZW, STM-64 and 10G Fibre Channel, both with and without FEC.

The transceiver consists of two sections: the transmitter section incorporates a temperature-stabilized EML laser, and the receiver section consists of an APD photodiode integrated with a TIA and low power dual CDR with Electronic Dispersion Compensation (EDC). This advanced optical technology enables transmission over 120km on standard singlemode fiber.

APPLICATIONS

- 10GBASE-ZR/ZW 10G Ethernet (with or w/o FEC)
- 1200-SM-LL-L 10G Fiber Channel (with or w/o FEC)
- SDH STM-64

FEATURES

- Hot pluggable XFP MSA form factor
- Temperature-stabilized 1550 nm EML laser transmitter and APD photo-detector
- Transmission distance of 120km with SMF
- Supports 9.95Gb/s to 11.3Gb/s bit rates
- Power supply: +5.0 V, +3.3 V
- Low power consumption
- LC connector full duplex transmission mode
- SFF-8472 Digital Diagnostic Function
- RoHS-6 compliant



LASER SAFETY

This singlemode transceiver is a Class 1 laser product. It complies with IEC-60825 and FDA 21 CFR 1040.10 and 1040.11. The transceiver must be operated within the specified temperature and voltage limits. The optical ports of the module need to be terminated with an optical connector or a dust plug.

ORDERING INFORMATION

Part no.	Description
XFP-MR10G-ZR120D	XFP, 10GBase-ZR, 9.95-11.1 Gbps, DDM, 120km, 1550nm, 26-31dB, SM, DDM

OPTICAL PARAMETERS

Part no.	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
XFP-MR10G-ZR120D	1550	+1 to +5	-25 (BER < 10 ⁻¹²)	26
			-30 (BER < 10 ⁻⁴) ¹⁾	31

¹⁾ A Bit Error Rate (BER) of 10⁻⁴ can be corrected to 10⁻¹² with standard Forward Error-Correction (FEC).