

SFP-10G-MR80-DT-NP

10G Tunable SFP+ Transceiver, C-band, Negative Chirp, 80km Reach

DESCRIPTION

This Fiberworks 10 Gigabit Small Form Factor Pluggable (SFP+) transceiver is compliant with the current SFP 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 c-band tunable negative-chirp laser and both wavelength and frequency tuning modes are supported in accordance with SFF-8690. The receiver section consists of an APD receiver with a limiting amplifier. For optimum system performance in noise loaded applications, support is provided for external control of the receiver decision threshold.

APPLICATIONS

- Supports 80km link distances
- 10Gb/s Gigabit Ethernet 10GBASE-ER/EW
- 10G Fibre Channel
- OTU2 with FEC
- Dispersion limited or noise limited
- High/low OSNR Metro
- Link with or without amplification

FEATURES

- ITU-T C-band 50 GHz spacing Tunable DWDM SFP+ Transceiver
- Adjustable channel plan within 191.35 - 196.1 THz
- Selected channel can be copied into standard EEPROM wavelength data
- Data rate 9.95- 11.3 Gbit/s
- Support 80 km link distances
- Negative chirp transmitter with ILMZ (Integrated Laser Mach Zehnder) TOSA
- Tx dither for use in high-power links
- APD receiver with limiting amplifier
- Adjustable Rx determination threshold value
- Low power consumption: < 1.5 W
- Positive power supply lines: 3.3 V
- Operating case temperature range: 0 to 70 °C
- RoHS 6 compliant



LASER SAFETY

This singlemode transceiver is a Class 1 laser product. It complies with IEC-60825-1 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
SFP-10G-MR80-DT-NC	SFP+, 9.9-11.3G, 80km, Advanced Tunable, DWDM 50GHz ITU, 23dB, SM

OPTICAL PARAMETERS

Part no.	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-MR80D-NC-DTUN	1528.77 - 1566.72	-1 to +3	-7 to -24 (BER < 10 ⁻¹² , OSNR > 35 dB)	23