

SFP-MRD-Cxx

155 Mb/s ~ 2.67 Gb/s CWDM Multirate SFP Family

DESCRIPTION

The SFP-MRD-Cxx transceiver family are small form factor pluggable modules for bi-directional serial optical data communications. The modules are hot pluggable and digital diagnostic functions are available via an I2C serial bus specified in the SFP MSA SFF-8472. Its Multirate characteristics allow the module to transmit data-stream with data-rates from 155 Mb/s up to 2.67 Gb/s. Typical protocols are STM-16FEC/OC-48FEC, STM-16/OC-48, 2G Fibre Channel, Gigabit Ethernet, Fibre Channel, STM-4/OC-12, DVB-ASI, ESCON and STM-1/OC-3.

The modules meet requirements of ITU G.957 (SDH/SONET), IEEE 802.3 Gigabit Ethernet standard and ANSI Fibre Channel specifications, and are very suitable for interconnections in WDM, SDH, Gigabit Ethernet and Fibre Channel environments. The family covers a wide range of applications and has modules operating at CWDM wavelengths for 50 km, 80 km and 120 km transmission on singlemode fiber.

CWDM modules operate at nominal Coarse Wavelength Division Multiplexing (CWDM) wavelengths. There are 18 center wavelengths available from 1471 nm to 1611 nm, with each step 20 nm. The CWDM characteristics are fully compliant to the wavelength parameters specified in ITU standards G.694.2 and G.695.

APPLICATIONS

- 155 Mb/s to 2.67 Gb/s
- CWDM Systems

FEATURES

- Up to 18 CWDM wavelengths (λ): 1271nm to 1611nm
- Up to 120 km transmission (31 dB)
- Hot-Pluggable SFP footprint
- Duplex LC optical interface
- Small Form-Factor Pluggable (SFP) MSA compatible
- SFF-8472 Digital Diagnostic Function
- Fully compliant to ITU G.694.2 & G.695



FIBERWORKS

LASER SAFETY

This 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.

OPTICAL PARAMETERS

Part no.	Fiber type	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-MR50D-Cxx	SM	1271-1611	-2 to 3	-19 to -3	17
SFP-MR80D-Cxx	SM	1271-1611	0 to 5	-28 to -9	28
SFP-MR120D-Cxx	SM	1471-1611	0 to 5	-31 to -10	31

ORDERING INFORMATION

Part no.	Description
SFP-MR50D-Cxx	SFP, 155Mbps-2.67Gbps, CWDM 1271nm-1611nm, SM, 17dB, 50km
SFP-MR80D-Cxx	SFP, 155Mbps-2.67Gbps, CWDM 1271nm-1611nm, SM, 28dB, 80km
SFP-MR120D-Cxx	SFP, 155Mbps-2.67Gbps, CWDM 1471nm-1611nm, SM, 31dB, 120km

C27 = CWDM 1271 nm
 C29 = CWDM 1291 nm
 C31 = CWDM 1311 nm
 C33 = CWDM 1331 nm
 C35 = CWDM 1351 nm
 C37 = CWDM 1371 nm

C39 = CWDM 1391 nm
 C41 = CWDM 1411 nm
 C43 = CWDM 1431 nm
 C45 = CWDM 1451 nm
 C47 = CWDM 1471 nm
 C49 = CWDM 1491 nm

C51 = CWDM 1511 nm
 C53 = CWDM 1531 nm
 C55 = CWDM 1551 nm
 C57 = CWDM 1571 nm
 C59 = CWDM 1591 nm
 C61 = CWDM 1611 nm