

SFP-MRD-Cxx

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

INTRODUCTION

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 a I2C serial bus specified in the SFP MSA SFF-8472. Its Multirate characteristics allow the module to transmit data-stream with data-rates starting from 155 Mb/s up to 2.67 Mb/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, 100 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

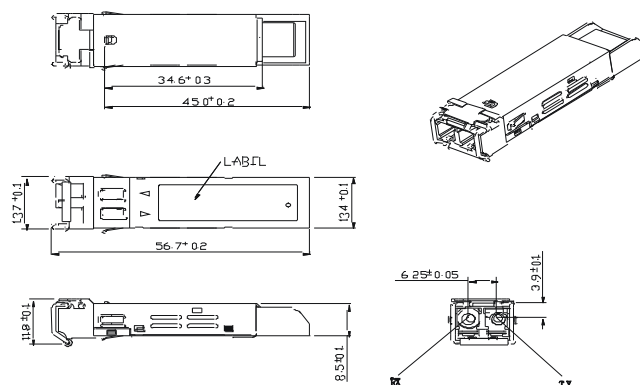
- 155 Mb/s to 2.67 Gb/s
- CWDM Systems

FEATURES

- 18 CWDM wavelengths (λ): 1271 nm to 1611 nm
- Up to 50 km transmission with PIN receiver (18 dB)
- Up to 120 km transmission with APD receiver (33 dB)
- Hot-Pluggable SFP footprint LC Optical Transceiver
- Small Form-Factor Pluggable (SFP) MSA compatible
- SFF-8472 Digital Diagnostic Function
- Fully compliant to ITU G.694.2 & G.695

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 shall be terminated with an optical connector or with a dust plug.



Specification subject to change without notice.

Ordering Information

Part no:	Description/Application
SFP-MR50D-Cxx	SFP, 100Mbps-2.7Gbps, Multirate, CWDM, SM, DDM, 18dB, 50km
SFP-MR80D-Cxx	SFP, L1/4/16.2, 100Mbps-2.7Gbps, Multirate, CWDM, SM, DDM, 28dB, 80km
SFP-MR100D-Cxx	SFP, L1/4/16.2C, 100Mbps-2.7Gbps, Multirate, CWDM, SM, DDM, 30dB, 100km
SFP-MR120D-Cxx	SFP, L1/4/16.2C, 100Mbps-2.7Gbps, Multirate, CWDM, SM, DDM, 33dB, 120km

Optical Parameters

Part no. Parameter	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget[dB]
SFP-MR50D-Cxx	CWDM	0 to +5	-18 to -3	18
SFP-MR80D-Cxx	CWDM	0 to +5	-28 to -9	28
SFP-MR100D-Cxx	CWDM	0 to +5	-30 to -9	30
SFP-MR120D-Cxx	CWDM	+3 to +6	-30 to -9	33