

SFP-155M

100 -155 Mb/s SFP Family

DESCRIPTION

The SFP-155M transceiver family are small form factor pluggable modules for bi-directional serial optical data communications such as SONET/SDH OC-3/STM-1 or Fast Ethernet. The modules are hot pluggable and digital diagnostic functions are available via an I2C serial bus specified in the SFP MSA SFF-8472.

The modules meet the requirements of ITU G.957 (SDH/SONET) and are suitable for interconnections in WDM, SDH or Ethernet environments. This versatile family covers a wide range of applications and has modules operating over 15 km, 40 km, 80 km and 160 km transmission on singlemode fiber.

CWDM modules operate at nominal Coarse Wavelength Division Multiplexing (CWDM) wavelengths. There are eight 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

- 100 Mb/s or 155 Mb/s
- ATM Switches and Routers
- SDH/SONET Switch Infrastructure
- Fast Ethernet Applications

FEATURES

- Up to 40 km transmission at 1310 nm
- Up to 160 km transmission with CWDM
- Hot-Pluggable SFP footprint
- Duplex LC optical interface
- Small Form-Factor Pluggable (SFP) MSA compatible
- SFF-8472 Digital Diagnostic Function
- RoHS compliant



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.	SM/MM Fiber	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-155M-L15D	SM	1310	-15 to -8	-29 to -8	14
SFP-155M-L40D	SM	1310	-7 to -2	-32 to -8	25
SFP-155M-L80D	SM	1550	-5 to 0	-33 to -8	28

OPTICAL PARAMETERS CWDM

Part no.	SM/MM Fiber	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-155M-L80D-Cxx	SM	1471-1611	-5 to 0	-33 to -10	28
SFP-155M-L160D-Cxx	SM	1471-1611	1 to 6	-36 to -8	37

ORDERING INFORMATION

Part no.	Description
SFP-155M-L15D	SFP, 100/155Mbps, 15 km, 1310 nm, 14dB, DDM, SM
SFP-155M-L40D	SFP, 100/155Mbps, 40 km, 1310 nm, 25dB, DDM, SM
SFP-155M-L80D	SFP, 100/155Mbps, 80 km, 1550 nm, 28dB, DDM, SM

ORDERING INFORMATION CWDM

Part no.	Description
SFP-155M-L80D-Cxx	SFP, 100/155Mbps, 80 km, CWDM 1471-1611 nm, 28dB, DDM, SM
SFP-155M-L160D-Cxx	SFP, 100/155Mbps, 160 km, CWDM 1471-1611 nm, 37dB, DDM, SM

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