

SFP-100Base CWDM

125 Mb/s Fast Ethernet CWDM SFP transceiver family with DDM

DESCRIPTION

The SFP-100Base CWDM transceiver family are small form factor pluggable modules for bi-directional serial optical data communications such as FastEthernet. 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 are suitable for interconnections in WDM or Ethernet environments. This versatile family covers a wide range of applications and has modules operating over 40 km, 80 km and 160 km transmission on singlemode fiber.

CWDM modules operate at nominal Coarse Wavelength Division Multiplexing (CWDM) wavelengths. There are eighteen center wavelengths available from 1271 nm to 1611 nm, with each step 20 nm. For the 80 km and 160 km versions eight channels, from 1471 nm to 1611 nm are available. The CWDM characteristics are fully compliant to the wavelength parameters specified in ITU standards G.694.2 and G.695

APPLICATIONS

- 100Base Ethernet
- FTTx

FEATURES

- Up to 160 km transmission on singlemode fiber
- Hot-Pluggable SFP footprint
- Duplex LC optical interface
- Small Form-Factor Pluggable (SFP) MSA compatible
- SFF-8472 Digital Diagnostic Function
- RoHS compliant



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-100B-L40D-Cxx	SM	1271-1611	-7 to -2	-32 to -8	25
SFP-100B-L80D-Cxx	SM	1471-1611	-5 to 0	-33 to -10	28
SFP-100B-L160D-Cxx	SM	1471-1611	1 to 6	-36 to -10	37

ORDERING INFORMATION

Part no.	Description
SFP-100B-L40D-Cxx	SFP, 100/155Mbps FE , CWDM 1271nm-1611nm, SM, 25dB, 40km

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

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

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