

SFP-4GFC

4G/2G/1G Fibre Channel SFP Family

DESCRIPTION

The SFP-4GFC transceiver family are small form factor pluggable modules for bi-directional serial optical data communications such as 4x/2x/1x Fibre Channel and 1000BASE 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 the IEEE 802.3 Gigabit Ethernet standard and ANSI Fibre Channel specifications, and are suitable for interconnections in Gigabit Ethernet and Fibre Channel environments. The family covers a wide range of applications, with 850nm versions available for multimode fiber and 1310nm and CWDM wavelengths available for singlemode fiber.

CWDM modules operate at nominal Coarse Wavelength Division Multiplexing (CWDM) wavelengths. Eighteen center wavelengths are available from 1271 nm to 1611 nm with each step being 20 nm. The CWDM characteristics are fully compliant to the wavelength parameters specified in ITU standards G.694.2 and G.695

APPLICATIONS

- 4.25 Gb/s, 2,125 Gb/s & 1.0625 Gb/s Fibre Channel
- 1000Base Ethernet

FEATURES

- Up to 2 km transmission on MM fiber
- Up to 80 km transmission at 1550nm and CWDM wavelengths
- Hot-Pluggable SFP footprint
- Optical LC interface for fiber pair operation
- 18 CWDM wavelengths (λ): 1271 nm to 1611 nm
- SFF-8472 Digital Diagnostic Function



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-4GFC-SD	MM	850	-9 to -2.5	-15 to -2.5	6
SFP-4GFC-L5D	SM	1310	-8 to -3	-18 to 0	10
SFP-4GFC-L10D	SM	1310	-8 to -3	-18 to 0	10
SFP-4GFC-ER	SM	1550	0 to 4	-18 to 0	18
SFP-4GFC-ZR	SM	1550	2 to 5	-24 to -3	26
SFP-4GFC-30D-Cxx	SM	1271-1451	0 to 4	-18 to 0	18
SFP-4GFC-50D-Cxx	SM	1471-1611	0 to 5	-20 to 0	20
SFP-4GFC-80D-Cxx	SM	1471-1611	0 to 5	-24 to -7	24

ORDERING INFORMATION

Part no.	Description
SFP-4GFC-SD	SFP, 4/2/1G Fibre Channel, 850nm, MM, 6dB, 2km
SFP-4GFC-L5D	SFP, 4/2/1G Fibre Channel, 1310nm, SM, 10dB, 5km
SFP-4GFC-L10D	SFP, 4/2/1G Fibre Channel, 1310nm, SM, 10dB, 10km
SFP-4GFC-ER	SFP, 4/2/1G Fibre Channel, 1550nm, SM, 18dB, 40km
SFP-4GFC-ZR	SFP, 4/2/1G Fibre Channel, 1550nm, SM, 24dB, 80km

ORDERING INFORMATION CWDM

Part no.	Description
SFP-4GFC-30D-Cxx	SFP, 4/2/1G Fibre Channel, CWDM low-band, SM, 18dB, 30km

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

Part no.	Description
SFP-4GFC-50D-Cxx	SFP, 4/2/1G Fibre Channel, CWDM, SM, 18dB, 50km
SFP-4GFC-80D-Cxx	SFP, 4/2/1G Fibre Channel, CWDM, SM, 24dB, 80km

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