

SFP-10GE1G-LR

10G / 1G Ethernet – Dual Rate

DESCRIPTION

The SFP-10GE1G-LR transceiver is a small form factor pluggable modules for bi-directional serial optical data communications such as 10GBASE Ethernet and 1000Base Ethernet. The module is compliant to the SFP+ MSA and are hot pluggable. 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 10GBASE-LR and 1000Base-LX Ethernet standard and are suitable for interconnections in 10G and 1G Ethernet environments.

APPLICATIONS

- 10GBASE-LR
- 1000Base-LX

FEATURES

- Up to 10 km transmission on SM fiber
- Operating wavelength 1310 nm
- Dual data-rate of 1.25 Gb/s and 10.3125 Gb/s
- Hot-Pluggable SFP footprint
- Compatible with Small-Form Pluggable (SFP) MS
- Duplex LC interface for fiber pair operation
- SFF-8472 Digital Diagnostic Function
- Operating Case Temperature: Standard: 0°C to 70°C



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-10GE1G-LR	SM	1310	-6 to 1	-15 to 1	9

ORDERING INFORMATION

Part no.	Description
SFP-10GE1G-LR	SFP+, 10G/1G Ethernet, 1310nm, SM, DDM, 9dB, 10km

CWDM OPTICAL PARAMETERS

Part no.	Fiber type	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-10GE-ER-CxxL	SM	1271-1451	-1 to 5	-16 to 0	15
SFP-10GE-ER-Cxx	SM	1471-1611	-1 to 5	-16 to 0	15
SFP-10GE-ER-CxxL	SM	1271-1451	0 to 5	-24 to -8	24
SFP-10GE-ZR-Cxx	SM	1471-1611	0 to 5	-24 to -8	24

ORDERING INFORMATION

Part no.	Description
SFP-10GE-LR	SFP+, 10G Ethernet, 1310nm, SM, DDM, 9dB, 10km

CWDM ORDERING INFORMATION

Part no.	Description
SFP-10GE-ER-CxxL	SFP+, 10G Ethernet, CWDM low-band, SM, 15dB, 30km
SFP-10GE-ZR-CxxL	SFP+, 10G Ethernet, CWDM low-band, SM, 24dB, 40-60km

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-10GE-ER-Cxx	SFP+, 10G Ethernet, CWDM, SM, 15dB, 40km
SFP-10GE-ZR-Cxx	SFP+, 10G Ethernet, 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