

# SFP-L120D-Cxx

## 1.25 Gb/s CWDM SFP with up to 120 km range

### DESCRIPTION

The SFP-L120D-Cxx optical transceiver is fully compliant with the SFP Multi-Source Agreement (MSA). It meets the requirements of IEEE 802.3 Gigabit Ethernet standard and ANSI Fibre Channel specifications, and is very suitable for interconnections in Gigabit Ethernet and Fibre Channel environments. The modules are hot pluggable and digital diagnostic functions are available via an I2C serial bus specified in the SFP MSA SFF-8472.

The transceivers are high performance, cost effective modules supporting dual data-rates of 1.25 Gb/s and 1.0625 Gb/s and can operate over transmission distances up to 120 km on 9/125µm SM fiber. All transceivers have been tested according to European and American product safety and electromagnetic compatibility regulations.

CWDM modules operate at nominal Coarse Wavelength Division Multiplexing (CWDM) wavelengths. Eighteen center wavelengths are available for SFP-L120D-Cxx 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

- Gigabit Ethernet
- 1000Base-ZX
- 1x Fibre Channel
- CWDM systems

### FEATURES

- Up to 120 km transmission on SMF
- Hot-Pluggable SFP+ footprint LC Optical Transceiver
- Duplex LC receptacle
- Small Form-Factor Pluggable (SFP) MSA compatible
- Digital Diagnostic Monitoring
- SFF-8472 Digital Diagnostic Function
- Single +3.3V Power Supply and LVTTTL Logic
- Operating Case Temperature: 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.	SM/MM Fiber	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-L120D-Cxx	SM/MM	1271~1611	0 to 5	-32 to -10	32

**ORDERING INFORMATION**

Part no.	CWDM wavelength	Description
SFP-L120D-C27	1271 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1271nm, 32dB, SM/MM
SFP-L120D-C29	1291 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1291nm, 32dB, SM/MM
SFP-L120D-C31	1311 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1311nm, 32dB, SM/MM
SFP-L120D-C33	1331 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1331nm, 32dB, SM/MM
SFP-L120D-C35	1351 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1351nm, 32dB, SM/MM
SFP-L120D-C37	1371 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1371nm, 32dB, SM/MM
SFP-L120D-C39	1391 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1391nm, 32dB, SM/MM
SFP-L120D-C41	1411 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1411nm, 32dB, SM/MM
SFP-L120D-C43	1431 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1431nm, 32dB, SM/MM
SFP-L120D-C45	1451 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1451nm, 32dB, SM/MM
SFP-L120D-C47	1471 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1471nm, 32dB, SM/MM
SFP-L120D-C49	1491 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1491nm, 32dB, SM/MM
SFP-L120D-C51	1511 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1511nm, 32dB, SM/MM
SFP-L120D-C53	1531 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1531nm, 32dB, SM/MM
SFP-L120D-C55	1551 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1551nm, 32dB, SM/MM
SFP-L120D-C57	1571 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1571nm, 32dB, SM/MM
SFP-L120D-C59	1591 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1591nm, 32dB, SM/MM
SFP-L120D-C61	1611 nm	SFP, 1.25 Gbps Ethernet, DDM, 120km, 1611nm, 32dB, SM/MM