

1.25 Gb/s CWDM SFP Family

INTRODUCTION

The SO-SFP-1000Base-Cxx optical transceiver family 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 200 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. There are eighteen center wavelengths 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

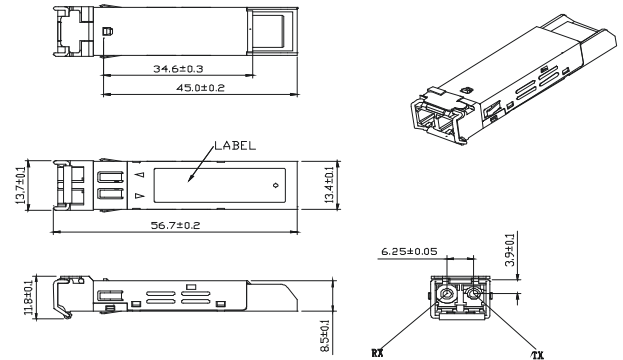
- 1000Base Ethernet
- Fibre Channel
- CWDM Systems

FEATURES

- 18 CWDM wavelengths (λ): 1271 nm to 1611 nm
- Up to 80 km transmission with PIN receiver (22 dB)
- Up to 200 km transmission with APD receiver (39 dB)
- Hot-Pluggable SFP footprint LC Optical Transceiver
- Small Form-Factor Pluggable (SFP) MSA compatible
- SFF-8472 Digital Diagnostic Function
- Fully compliant to ITU G.694.2 & G.695

LASER SAFETY

This singlemode 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.



Specification subject to change without notice.

Ordering Information:

Part no:	Description/Application
SO-SFP-L80D-Cxx*	1.25 Gb/s & 1.0625 Gb/s transceiver operating at CWDM for 80 km of SM fiber
SO-SFP-L120D-Cxx*	1.25 Gb/s & 1.0625 Gb/s transceiver operating at CWDM for 120 km of SM fiber
SO-SFP-L160D-Cxx*	1.25 Gb/s & 1.0625 Gb/s transceiver operating at CWDM for 160 km of SM fiber
SO-SFP-L200D-Cxx*	1.25 Gb/s & 1.0625 Gb/s transceiver operating at CWDM for 200 km of SM fiber

* -C27 = CWDM 1270 nm
 -C35 = CWDM 1350 nm
 -C43 = CWDM 1430 nm
 -C51 = CWDM 1510 nm
 -C59 = CWDM 1590 nm

-C29 = CWDM 1290 nm
 -C37 = CWDM 1370 nm
 -C45 = CWDM 1450 nm
 -C53 = CWDM 1530 nm
 -C61 = CWDM 1610 nm

-C31 = CWDM 1310 nm
 -C39 = CWDM 1390 nm
 -C47 = CWDM 1470 nm
 -C55 = CWDM 1550 nm

-C33 = CWDM 1330 nm
 -C41 = CWDM 1410 nm
 -C49 = CWDM 1490 nm
 -C57 = CWDM 1570 nm

Optical Parameters:

Part no. \ Parameter	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SO-SFP-L80D-Cxx	CWDM	0 to 5	-22 to -3	22
SO-SFP-L120D-Cxx	CWDM	0 to 5	-30 to -9	30
SO-SFP-L160D-Cxx	CWDM	+1 to 5	-36 to -9	37
SO-SFP-L200D-Cxx	CWDM	+3 to 6	-36 to -9	39