



1064271021 & 1064271023

**QSFP28 100G CWDM4 Optical
Transceiver 10km**

Molex

www.molex.com

1 Introduction and Overview

1.1 General Description

The Molex QSFP28 100G-CWDM4 Optical Transceiver module assembly is a monolithic electronic and photonic module assembly containing four coarse wavelength division multiplexed lanes, each operating at data rates 25 Gbps. The optical interface of the module is a duplex LC connector and is compliant to the CWDM4 MSA specification. It provides an excellent solution for 100G data transmission over up to 10km single mode fiber.



Figure 1-1: QSFP28 100G-CWDM4 Transceiver

1.2 Features

The QSFP28 100G-CWDM4 Optical Transceiver offers the following features:

- Compliant to CWDM4 MSA Optical Specifications
- Operates at 25Gbps
- Up to 10km reach
- 1270nm/1290nm/1310nm/1330nm Wavelength
- Duplex LC optical connector
- Power 3.5W Maximum
- 3.3V Power Supply
- 4 x 25.78125Gbps retimed electrical interface (IEEE 802.3bm CAUI-4)
- QSFP form factor, compliant to QSFP28 MSA Specifications SFF-8679
- 0 to 70°C case temperature
- RoHS 6/6 Compliant
- Hot-Pluggable

- Programmable Rx Output Amplitude and Pre-emphasis
- Tx Input Equalizer

1.3 Applications

The QSFP28 100G-CWDM4 Optical Transceiver can be used in the following applications:

- 100 Gigabit Ethernet
- Ethernet Local Area Network (LAN)
- Proprietary Cluster Interconnect
- InfiniBand Connectivity SDR/DDR/QDR/FDR/EDR

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