

QSFP28 Passive Loopback Module

ML4002-28-C5

QSFP28 Loopback module
(4x28G) Interconnects



Key Features

- Power Consumption of 5W
- High performance signal integrity trace
- Operation up to 28G per lane
- Supports 4x28G
- QSFP28 MSA Form Factor
- Dual LED indicator
- Custom Memory Maps
- 100% at rate AC testing, on each unit
- Built in diagnostic functions
- Hot-pluggable MSA footprint
- Fully SFF-8636 MSA Compliant
- Temperature Monitoring
- Voltage Monitoring
- Temperature range from 0° to 80° C
- MSA Compliant Memory Map
- Insertion counter
- Power Staging
- Micro controller based

Ordering information

ML4002-28-C5

Superior Integrity and Performance

Summary

QSFP28 Passive Loopback Module **ML4002-28-C5**, is used for testing QSFP/QSFP28 transceiver ports under board level tests. By substituting a full-featured QSFP/ QSFP28 transceiver with the ML4002-28, its electrical loopback provides a cost effective low loss method for QSFP/QSFP28 port testing.

The **ML4002-28-C5** is packaged in a standard MSA housing compatible with all QSFP/QSFP28 ports. Transmit data from the host is electrically routed, (internal to the loopback module), to the receive data outputs and back to the host. It provides an economical way to exercise QSFP/QSFP28 ports during R&D validation, production testing, and field testing.

The **ML4002-28-C5** provides QSFP/QSFP28 various power Classes up to 5 W, loading using a customer supplied +3.3V voltage supply

Benefits

- Economical QSFP/QSFP28 Port Testing
- Custom Memory Maps
- Board Level System Testing
- Power On Validation
- Excellent Signal Integrity

Applications

- QSFP Port/System testing
- Server blade testing
- ITU-T Recommendation G.957 (STM-1, 4 & 16)...
- Ethernet IEEE 802.3 (Gigabit, 10 Gigabit and 40 Gigabit Ethernet).
- FDR, EDR and QDR.

Worldwide

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About MultiLane SAL

MultiLane SAL is leading developer of high speed instruments and interconnects test modules for 10, 40, and 100Gbps of SerDes and high speed IO for the semiconductor and cloud computing infrastructure. Products includes BERTs, Scopes, and MSA Compliant development tools MCBs, HCBs and loopback modules for CFP, CFP2, CFP2-ACO, QSFP, QSFP28, SFP and SFP28 modules. MultiLane's products are used to test semiconductors, AOC, electro optical modules and blades. MultiLane operates out of Houmal Technology Park in Lebanon, and has been offering leading edge technology and products to Tier-1 equipment suppliers globally.

Brochure History

This section describes the changes that were implemented in this document. The changes are listed by revision, starting with the most current publication.

Revision 0.1: June 30th 2015