CFP Electrical Passive Loopback Module

ML4013

MSA Compliant 100G (10x10G) Interconnects

Key Features
- Passive CFP loopback module, 10 TX & 10 RX Lanes operating at 100 Gb/s per lane
- Built with advanced PCB material
- High performance signal integrity traces
- CFP MSA Form Factor
- Insertion counter
- Programmable Power dissipation up to 24W, custom modules can go up to 40W
- Custom memory maps
- RX_LOS-Alarm driven by TX_DIS control or MDIO register
- MSA compliant Digital Diagnostic and Monitoring register (DDM)
- 3 Status LED indicator
- Temperature sensing

- Hot Pluggable module
- Cut-Off temperature preventing module overheating

Ordering information
ML4013

Superior Integrity and Performance

Summary
CFP Electrical Passive Loopback Module ML4013, is designed to provide an efficient and easy method of characterizing and testing 10x10G CFP ports.

The ML4013 comes packaged in a MSA compliant shell housing offering excellent heat dissipation. It can be programmed to different power levels through an MDIO interface, thus emulating all CFP power classes.

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 CFP ports during R&D validation, production testing, and field testing.

Applications
- 10x10G Electrical module testing and characterization
- CFP Port compliant testing
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: May 20th 2015