

Innovation for the next generation



ML4042

10x10 Gbps CFP2 Host Module

CFP2 MCB | Low Insertion Loss | Operation up to 10G per lane

Summary

The ML4042 is a CFP2 module compliance board which is a host module for high speed testing application for CFP2 Loopbacks. The ML4042 is designed for 100 Gigabit Ethernet applications and provides 10x10G RX and TX lanes, MSA compliant MDIO master.

ML4042

100G MCB

Introduction

CFP2 MSA Compliant Host board ML4042, is designed to provide an efficient and easy method of programming and testing 10x10G CFP2 modules.

The ML4042 comes complete with a user friendly GUI supporting all features defined by CFP2 MSA and simplifying configuration process. Current sense circuit is also included on the Host.

The ML4042 host is designed to simulate an ideal environment for CFP2 transceivers module and cable testing, characterization and manufacturing tests. Its properties make the host board as electrically transparent as possible, allowing for a more accurate assessment of the module's performance.

Key Features

- High Performance signal integrity traces
- CFP2 MSA Form Factor
- Low Insertion Loss Rogers 4350 based material
- 18 GHz Right Angle SMA connectors
- Supports 10x10G interfaces
- MSA compliant MDIO master
- Current Sense
- TX and RX channels come with matching trace length of 3338 mils
- On-board LEDs showing MSA output Alarms states
- On-board buttons/jumpers for MSA input control signals
- User friendly GUI for MDIO control and loading custom MSA Memory Maps.
- USB controlled

Target Applications

- 10x10G Electrical module testing and characterization
- High-speed data interface between an ASIC (SerDes) and the CFP2 module



Ordering Information

Option	Description
ML4042	10 Channels 10 Gbps MCB

Recommended Accessories

Interconnects	Recommended <i>Phase matched cable pairs</i>	Alternative <i>Phase matched cable sets</i>	Comments
ML4042	20 x MLCBPM-SMA-30	2 x MLCBPM-SMA-30-16	3.5 mm connector 2 x 20 channel 30 cm
ML4042	20 x MLCBPM-SMA-60	2 x MLCBPM-SMA-60-16	3.5 mm connector 2 x 20 channel 60 cm
ML4042	20 x MLCBPM-SMA-80	2 x MLCBPM-SMA-80-16	3.5 mm connector 2 x 20 channel 80 cm

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