EV-QSFP-174 4X14 Gb/s QSFP/QSFP+ Evaluation Board

Technical Specification V1.00

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UC INSTRUMENTS CORP.

www.ucinstruments.com

EV-QSFP-174 4X14 Gb/s SFP/SFP+ Evaluation Board

The UC INSTRUMENTS QSFP/QSFP+ (Quad Small Form Factor Pluggable) MSA Compliant Host Test Board is designed to provide an efficient and easy method of programming and high speed AC testing of 40G QSFP/QSFP+ transceivers and active optical cables, and customizing UC INSTRUMENTS' QSFP/QSFP+ electrical loopbacks.

The EV-QSFP-174 QSFP/QSFP+ Host Test Board comes complete with Windows based software (Windows XP & above) to enable intuitive memory map programming and testing, controlled via a mini B USB port. It is designed to simulate an ideal environment for QSFP/QSFP+ transceiver module testing, characterization and manufacturing test. Its high speed properties make the host board as electrically transparent as possible, allowing for a more accurate assessment of the module's performance.

Features

- QSFP/QSFP+ MSA Compliant
- Current / Power Supply Monitoring
- High Performance PCB Traces Support up to 4 x 14Gb/s (for 4X 28Gb/s QSFP+ request, please feel free to contact us us)
- 16 SMA Connectors for Testing the TX and RX Channels
- USB Controlled
- User Friendly Graphic User Interface (GUI) Exceeds XLAUI Compliance Criteria

Benefits

- Economical QSFP/QSFP+ Port Testing
- Independent of Module Manufacture
- Electrically Transparent
- Easy to Use / Easy to Set Up
- Board Level System Testing
- Superior Signal Integrity

Applications

- Test and Incoming Inspection for Transceivers and Electrical Loopbacks
- Memory Map Programming For Transceivers and Electrical Loopbacks
- Transceiver Development and Analysis

Equipment included in the evaluation board kit EV-QSFP-174

1. QSFP Evaluation PCB
2. DC Power supply cable assembly
3. SFP viewer setup CD-ROM. Please refer to the document included in the CD-ROM for the use of SFP viewer GUI

Equipment not included in this kit

1. 3.3 V DC power supply
2. Fiber optic cables
3. DCA-J 86100C
4. DCA-J plug in 86105C, 86112A
5. J-BERT N4903B
6. Fiber optic attenuator
7. EEPROM Reader (i-Port or similar), RJ-45 cable
8. PC

Software Capabilities

        – QSFP+ Module Status/Control
        – MSA Compliant

Power Requirements

The QSFP+ Host Test Board is powered from an external source through the power jack.
    External Power : 3.3V, 1.0A

Contact Information

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