

100Gbps Dual fiber CFP 10x10 2Km LC Transceiver

ZDCE02J-CCL

Product Features

- Up to 2km transmission at 100GbE
- 2km 10x10 MSA rev 2.5
- DFB array of lasers enables 100Gb/s links
- Integrated 10 x 10Gb/s 1550nm DFB WDM lasers
- Integrated 10 x 10Gb/s PIN PD array and TIA
- Integrated optical mux/demux with duplex SMF
- Support for riding heat sink with low power dissipation
- Multi-protocol, Multi-rate support
- Electrical interface compliant with CFP MSA and CAUI
- Thermal management for Tcase of -5 to 70 deg C
- Built-in Digital diagnostics and control through MDIO
- Digital diagnostic monitoring of per lane laser bias,
- Transmitter and receiver optical power

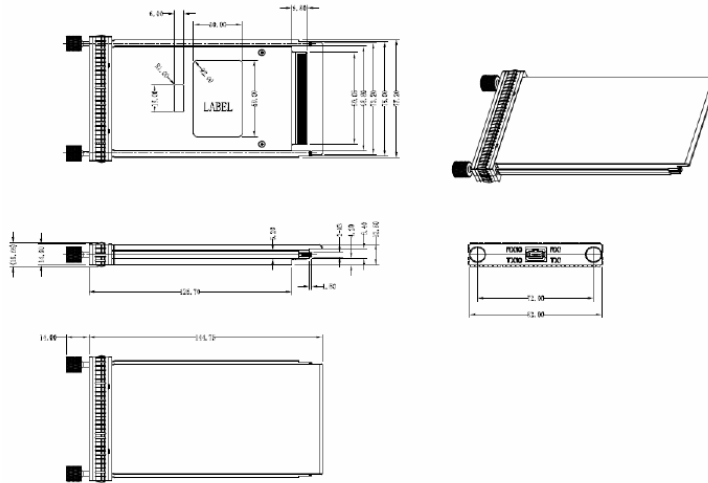
Product Applications

- Datacom and telecom switches and routers
- High performance cluster computing aggregation

General

The ZDCE02J-CCL is based on a new generation of highly integrated transceivers focused on reach, bandwidth, cost and power goals of high performance applications. The ZDCE02J-CCL integrates 10 independent lasers operating at 10.3125Gb/s and per channel providing a cost effective solution for long reach applications. The ZDCE02J-CCL leverages ZKTel's expertise in successful production of highly reliable parallel DFB laser arrays for telecommunication applications. The transceiver incorporates a 10 channel laser driver circuit together with a 10 channel DML array coupled with an optical multiplexer. On the receiver side, an optical de-multiplexer is coupled with a 10 channel photodiode array and a 10 channel TIA array resulting in a compact transceiver module for an aggregate bandwidth of 100 Gb/s over 2km of duplex SMF. The electrical interface is handled by a 10 channel Tx and Rx CDRs compliant with the CAUI interface. Mechanical dimensions, connectors and footprint of ZDCE02J-CCL conform to CFP MSA.

Package Diagram



For more information:

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