

# 100Gbps Dual fiber CFP 4x25 40Km LC Transceiver

## ZDCE40J-DCL

### Product Features

- Up to 40km transmission at 100GbE
- 10km 4x25 MSA rev 2.5
- DFB array of lasers enables 100Gb/s links
- Integrated 4 x 25Gb/s 1550nm EML WDM lasers
- Integrated 4 x 25Gb/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

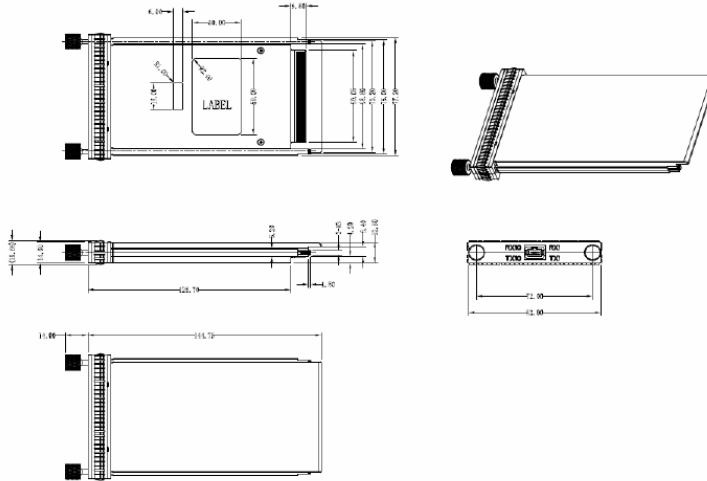
### Product Applications

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

### General

The ZDCE40J-DCL is based on a new generation of highly integrated transceivers focused on reach, bandwidth, cost and power goals of high performance applications. The ZDCE40J-DCL integrates 4 independent lasers operating at 25Gb/s and per channel providing a cost effective solution for long reach applications. The ZDCE40J-DCL leverages ZKTel's expertise in successful production of highly reliable parallel EML laser arrays for telecommunication applications. The transceiver incorporates a 4 channel laser driver circuit together with a 4 channel EML array coupled with an optical multiplexer. On the receiver side, an optical de-multiplexer is coupled with a 4 channel photodiode array and a 4 channel TIA array resulting in a compact transceiver module for an aggregate bandwidth of 100 Gb/s over 40km of duplex SMF. The electrical interface is handled by a 4 channel Tx and Rx CDRs compliant with the CAUI interface. Mechanical dimensions, connectors and footprint of ZDCE40J-DCL conform to CFP MSA.

### Package Diagram



### For more information:

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