



ZLE60300

Evaluation Kit for Pluggable Parallel Fiber Modules Data Sheet

April 2007

Description

The ZLE60300 evaluation kit is designed for high-speed evaluation of Zarlink's ZL603xx family of pluggable optical parallel fiber 4x transceiver modules. The kit consists of two evaluation boards and one transceiver optical test fiber ribbon cable. The evaluation board is fitted with a MegArray[®] electrical socket where the optical module can be plugged in. SMA connectors are provided for the differential, AC-coupled, high-speed CML I/O interface.

Electrical Connections

Each evaluation board is equipped with a switch to enable/disable certain functions within the module, see subsequent sections.

LEDs on the evaluation boards indicate the status of different signal outputs.

To ensure best performance, it is strongly recommended to terminate unused data input/output connectors with 50 Ω single-ended SMA-terminations.

Ordering Information

- ZLE60300 including
- Transceiver evaluation board with MegArray[®] socket
- Optical test fiber ribbon cable, 50/125 μm with MPO/MTP[®] connectors

Note: ZL603xx family pluggable optical transceiver should be ordered separately.

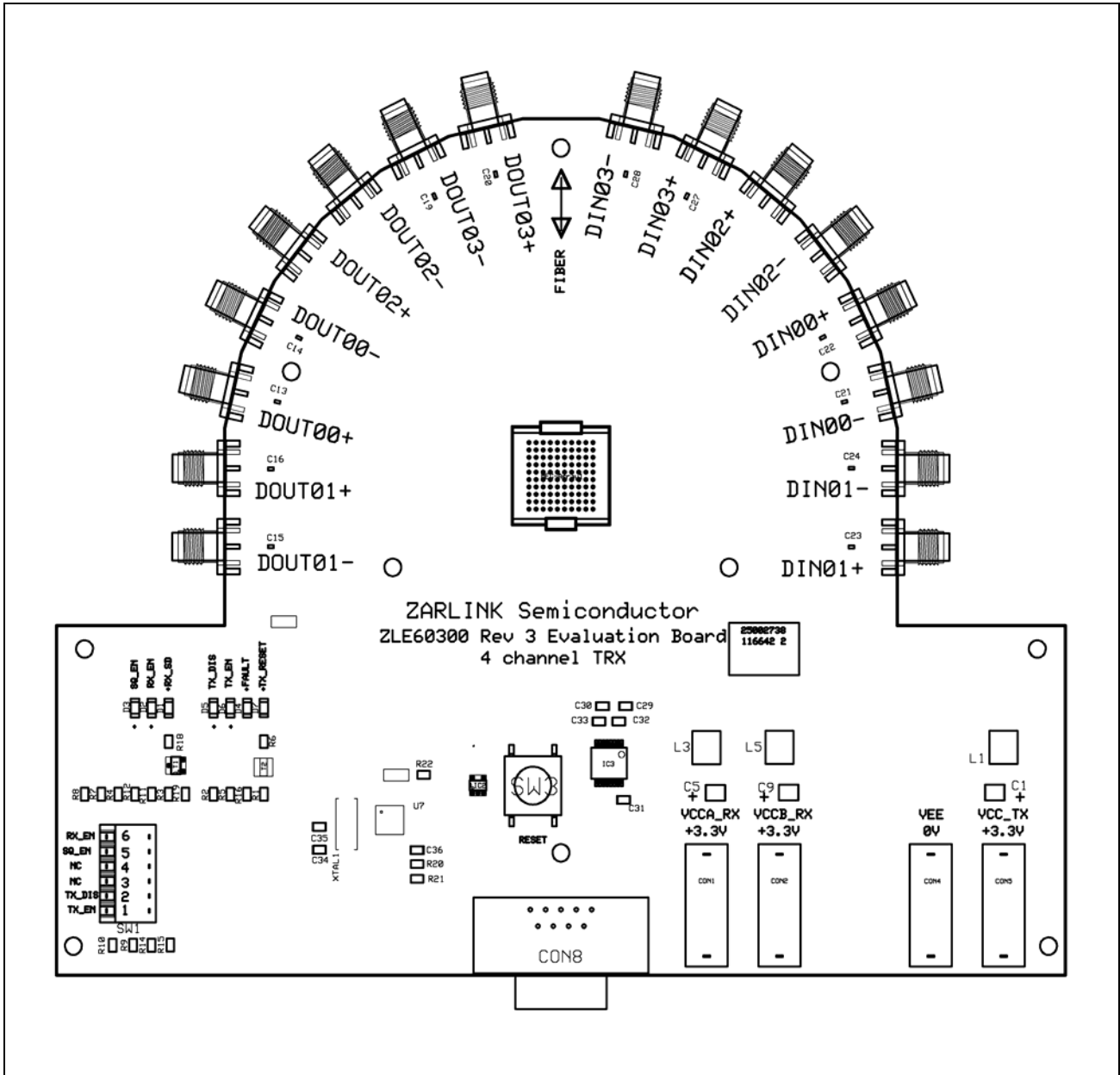


Figure 1 - Transceiver Evaluation Board

Separate power supplies for the receiver and the transmitter should be used for best performance. VCCA_Rx (CON1) and VCCB_Rx (CON2) on the receiver supply could be tied together.

| | | | |
|------|----------|--|---------------|
| 1 | TxEN | Tx enable Normal operation when toggled ON | Toggle switch |
| 2 | TxDIS | Transmitter disable Normal operation when toggled OFF | Toggle switch |
| 3 | NC | No connection | Toggle switch |
| 4 | NC | No connection | Toggle switch |
| 5 | SQ_EN | Squelch enable Squelch enabled when toggled ON | Toggle switch |
| 6 | RxEN | Receiver enable Normal operation when toggled ON | Toggle switch |
| | SQ_EN | Squelch enable Active when squelch enabled | LED indicator |
| | RX_EN | Receiver enable Active when receiver enabled | LED indicator |
| | RxSD | Receiver signal detect Active when valid optical input on all channels | LED indicator |
| | TX_DIS | Transmitter disable Active when transmitter disabled | LED indicator |
| | TX_EN | Transmitter enable Active when transmitter enabled | LED indicator |
| | FAULT | Transmitter fault Active when laser fault detected on at least one channel | LED indicator |
| | TX_RESET | Transmitter reset Active when transmitter under reset | LED indicator |
| CON8 | D-Sub | Used for connecting RS232 cable for communication (SPI) | Contact |
| SW3 | RESET | Transmitter reset Press to clear fault. Reloads registers into the VCSEL driver. Ready to operate when the reload is done. | Push button |

Table 1 - Transceiver Control and Status Functions



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