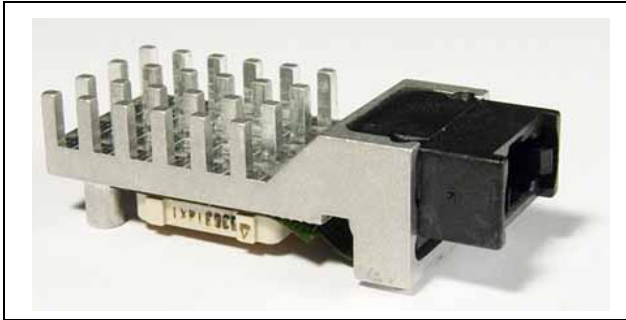


A full Data Sheet is available to qualified customers. To register, please send an email to opto@zarlink.com.

March 2007



Features

- 12 parallel channels, total 37.5 Gbps capacity
- Data rate up to 3.125 Gbps per channel
- 850 nm VCSEL array
- Link reach 200 m with 50/125 μm 500 MHz \cdot km fiber at 3.125 Gbps
- Channel BER better than 10^{-12}
- Industry standard MPO/MTPTM ribbon fiber connector interface
- Pluggable MegArray[®] ball grid array connector
- Optionally available with EMI shield
- Laser class 1M IEC 60825-1:2001 compliant
- Power supply 3.3 V
- Compatible with industry MSA

Applications

- High-speed interconnects within and between switches, routers and transport equipment
- Low cost SONET/SDH VSR (Very Short Reach) OC-192/STM64 connections
- InfiniBand[®] connections
- General high-bandwidth density interconnections

Ordering Information

ZL60113MLDA Parallel Fiber Transmitter
ZL60114MLDA Parallel Fiber Receiver

ZL6011xMMDA Parallel Fiber Module with
EMI gasket

0°C to +80°C

Description

The ZL60113 and ZL60114 together make a high speed transmitter/receiver pair for parallel fiber applications.

The ZL60113 transmitter module converts parallel electrical input signals via a laser driver and a VCSEL array into parallel optical output signals at a wavelength of 850 nm.

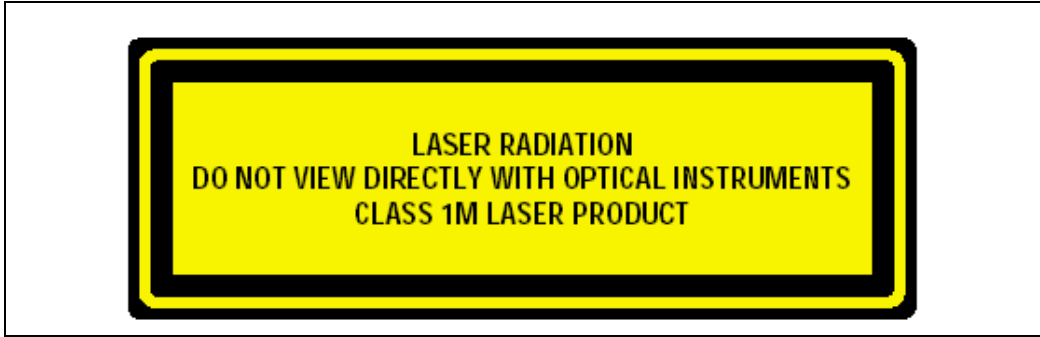
The ZL60114 receiver module converts parallel optical input signals via a PIN photodiode array and a transimpedance and limiting amplifier into electrical output signals.

The modules are pluggable each fitted with an industry-standard MegArray[®] BGA connector. This provides ease of assembly on the host board and enables provisioning of bandwidth on demand.

Reliability assurance is based on Telcordia GR-468-CORE and the parts are compliant to the EU directive 2002/95/EC issued 27 January 2003 [RoHS].



Exemption 6 & 7



Classified in accordance with IEC 60825-1/A2:2001, IEC 60825-2: 2000

Class 1 M Laser Product

Emitted wavelength: 840 nm

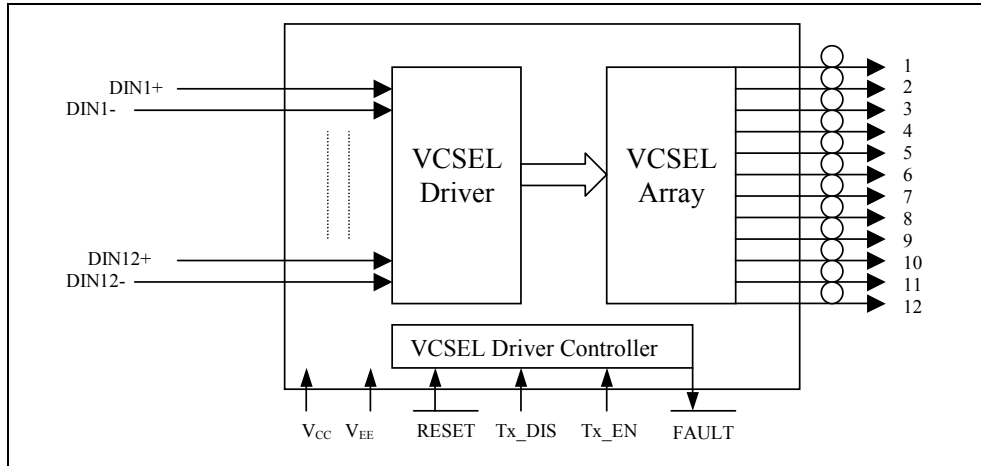


Figure 1 - ZL60113 Transmitter Block Diagram

Front view - MTP key up											
Ch12	Ch11	Ch10	Ch9	Ch8	Ch7	Ch6	Ch5	Ch4	Ch3	Ch2	Ch1
Host circuit board											

Table 1 - Transmitter Optical Channel Assignment

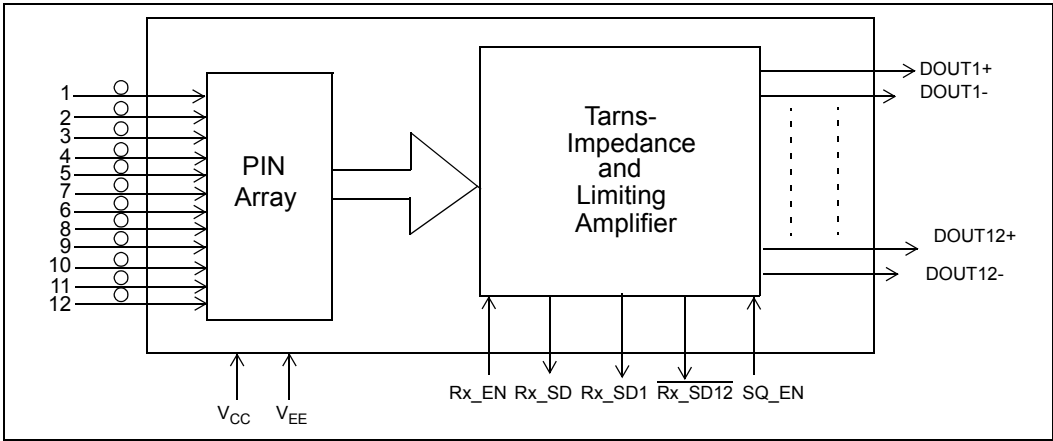


Figure 2 - ZL60114 Receiver Block Diagram

Front view - MTP key up											
Ch12	Ch11	Ch10	Ch9	Ch8	Ch7	Ch6	Ch5	Ch4	Ch3	Ch2	Ch1
Host circuit board											

Table 2 - Receiver Optical Channel Assignment



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