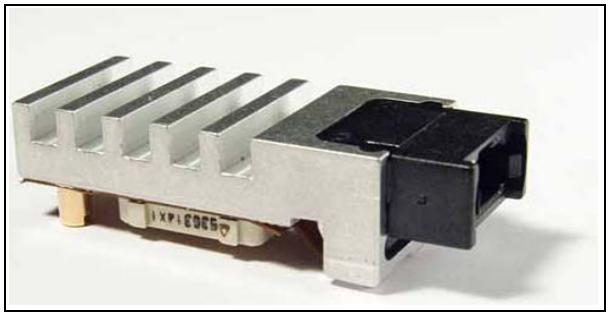
ZL60301

Parallel Fiber Optic Transceiver (4 + 4) x 2.72 Gbps

Shortform Data Sheet

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

March 2007



Ordering Information

ZL60301MLDC	Transceiver
ZL60301MMDC	Transceiver with EMI-clip

0°C to +80°C

Features

- Compatible with POP4 MSA usage
- 4 Transmit channels and 4 Receive channels
- Data rate up to 2.72 Gbps per channel
- 850 nm VCSEL array
- Data I/O is CML compatible
- Link reach 300-m with 50/125 μm 500 MHz· km fiber at 2.5 Gbps
- Channel BER better than 10^{-12}
- Industry standard MPO/MTP™ ribbon fiber connector interface
- Pluggable MegArray® connector
- Laser class 1 M IEC 60825-1:2001 compliant
- Low power consumption, < 1 W
- Power supply 3.3 V

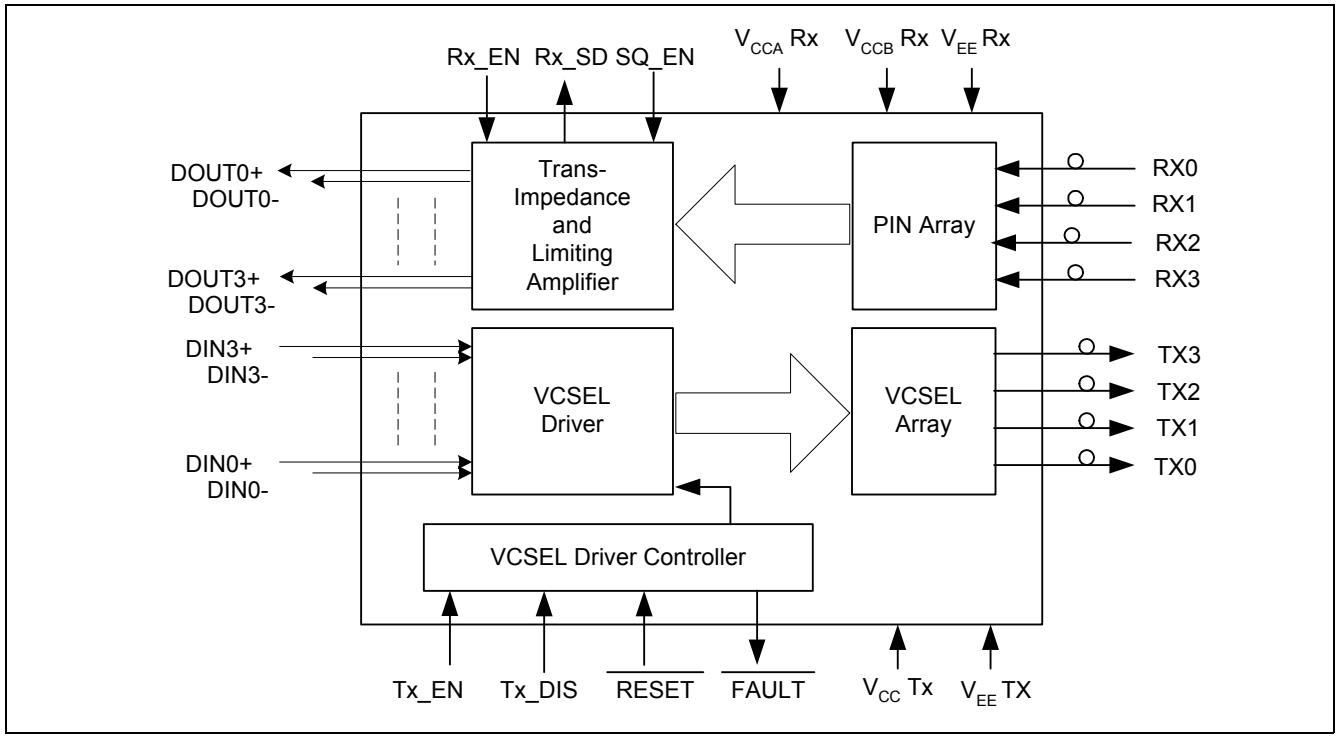


Figure 1 - Transceiver Block Diagram

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Applications

- High-speed interconnects within and between switches, routers and transport equipment
- Server-Server Clusters, Super-computing interconnections
- InfiniBand™ 4x-SX compliant
- Fibre Channel connections
- Proprietary backplanes
- Interconnects rack-to-rack, shelf-to-shelf, board-to-board, board-to-optical backplane

Description

The ZL60301 is high-speed transceiver for parallel fiber applications. This transceiver performs E/O and O/E conversions for data transmission over multimode fiber ribbon.

The ZL60301 provides advantages in terms of power consumption, edge and board density over competing solutions.

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

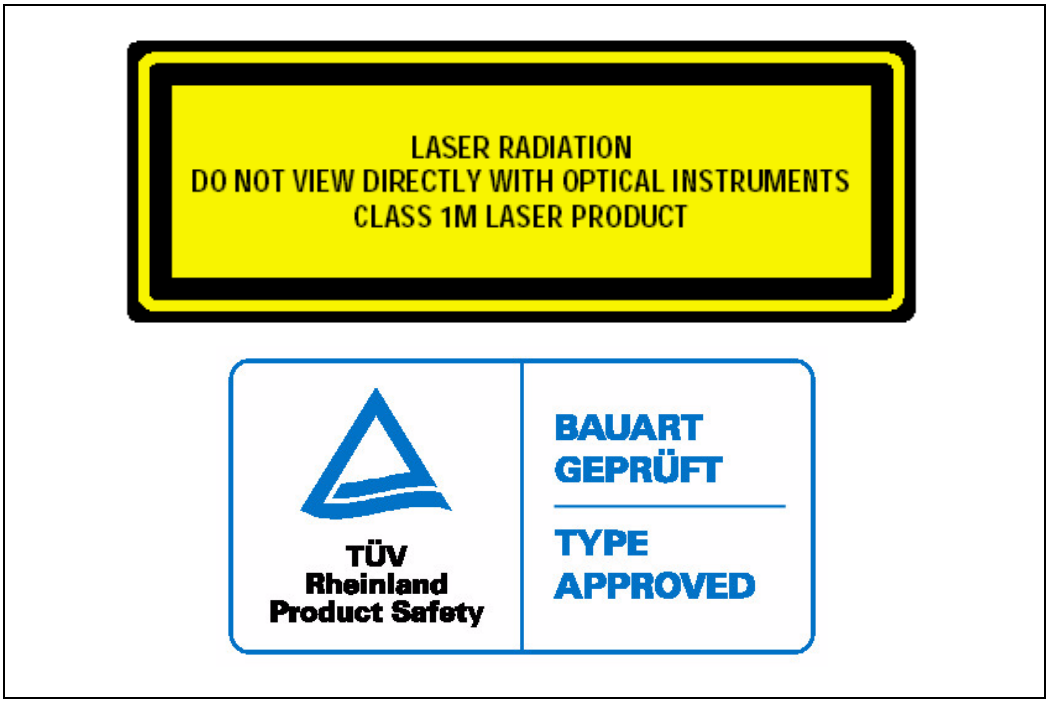
The receive section converts parallel optical input signals via a PIN photodiode array and a transimpedance and limiting amplifier, into electrical output signals.

The module is fitted with two pluggable industry-standard connectors. For the electrical interface, a 100 position FCI MegArray® receptacle is used. For the optical interface, an industry-standard MTP™(MPO) connector is used, which is compliant with IEC 61754-7. 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

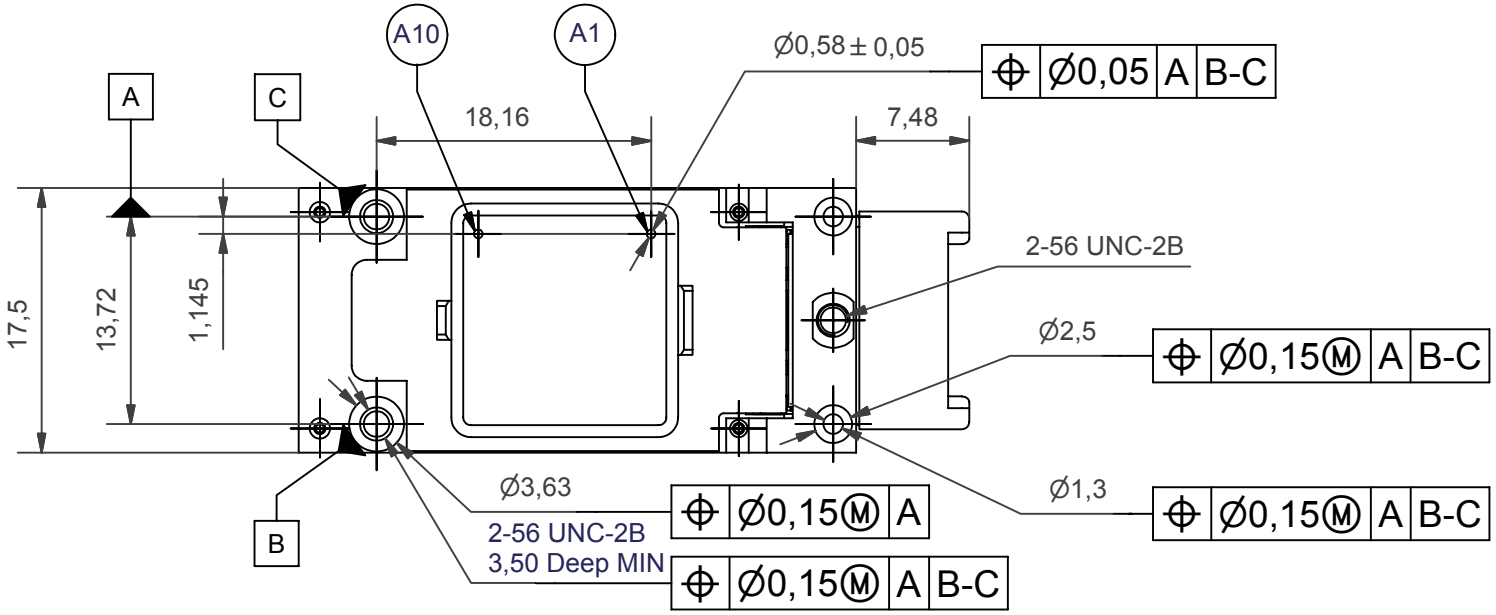
Emitted wavelength: 840 nm

Module front view - MTP key up											
Tx0	Tx1	Tx2	Tx3	–	–	–	–	Rx3	Rx2	Rx1	Rx0
Host printed circuit board											

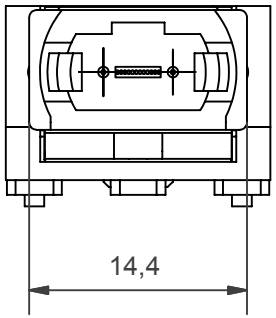
Table 1 - Transceiver Optical Channel Assignment

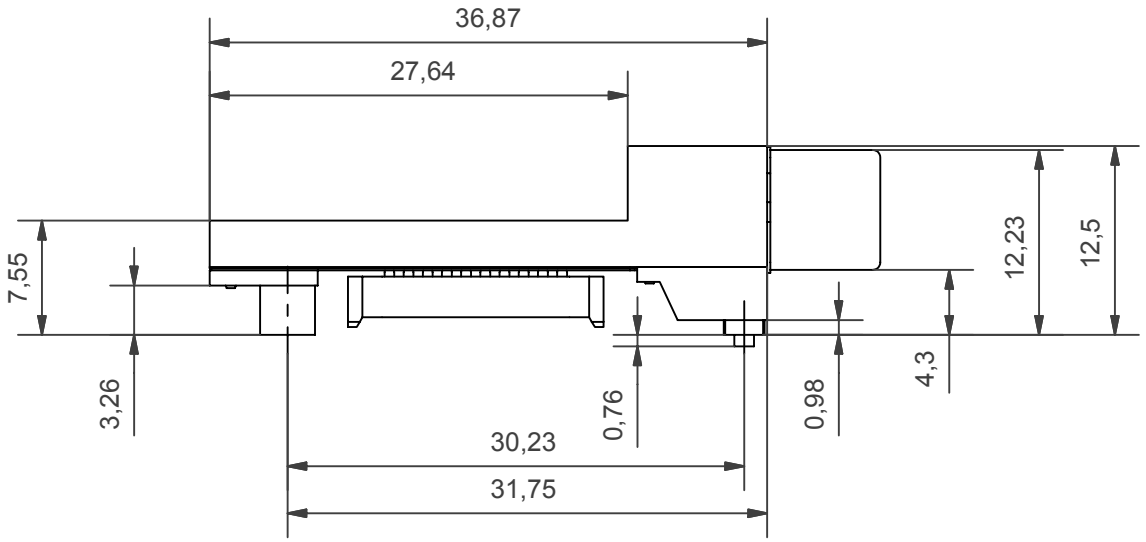
NOTES:-

1. All dimensions in mm.
2. Tolerancing per ASME Y14.5M-1994.



FRONT VIEW (2 : 1)





Projection Method

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ISSUE	1	2	3	
ACN	JS004296R1A	JS004296 rev.2	JS004296 rev.3	
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APPRD.	TD/BE	MD/MA	MD/MA	

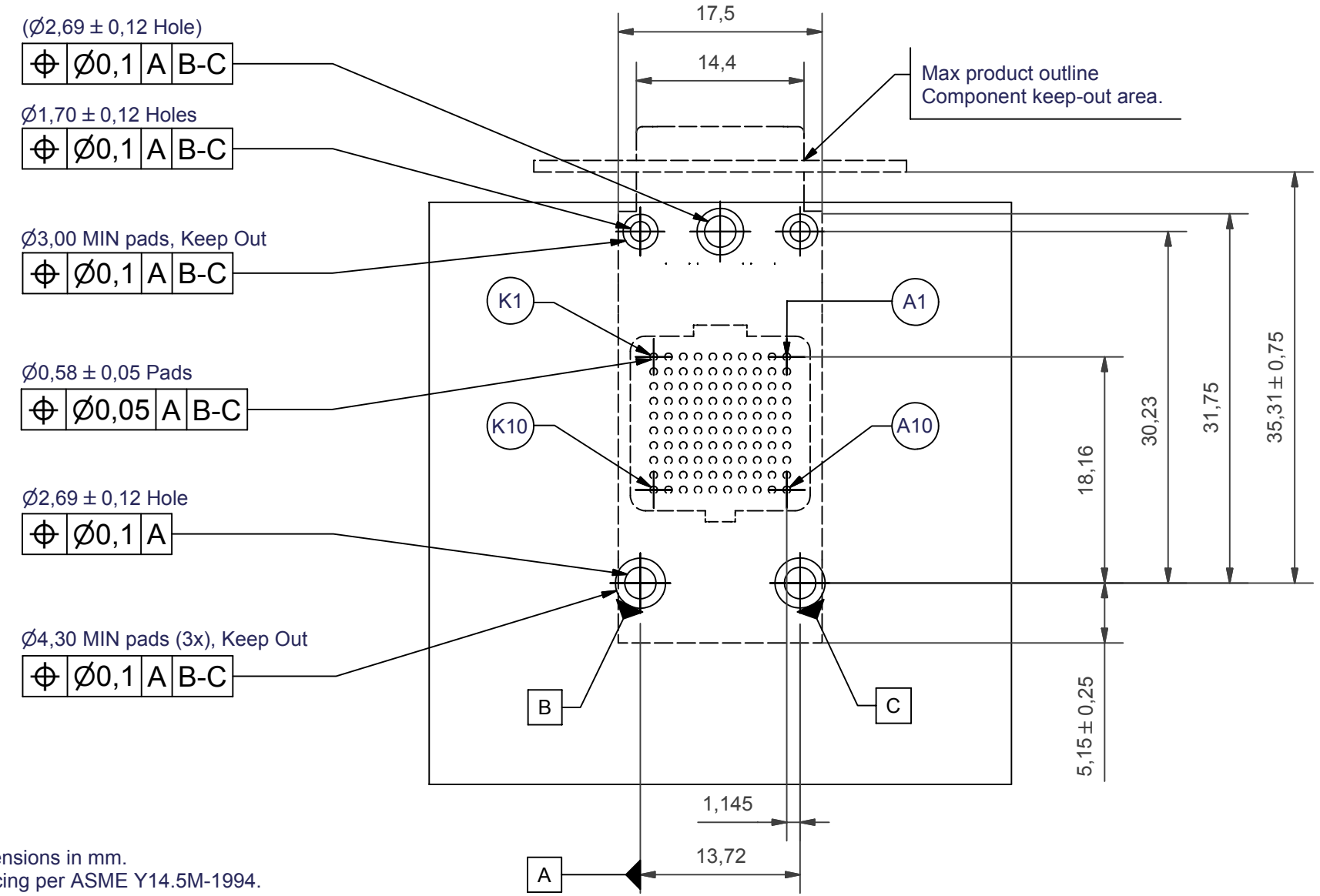
ZARLINK SEMICONDUCTOR

Previous package codes

Package code MJ

Drawing type
Package Drawing - Module Layout

Title JS004296



NOTES:-

1. All dimensions in mm.
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ZARLINK SEMICONDUCTOR

Previous package codes

Package code MJ

Drawing type
Package Drawing,
Host Circuit Board Footprint Layout

Title JS004296



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