



Partners from RF to Light

September 19, 2016

MACOM Announces a Chip-Set Solution for 100Gbps Onboard Optics Applications

MACOM's MALD-37345 and MATA-37344 is the first chip-set optimized for onboard 100Gbps optical transceivers

LOWELL, Mass.--(BUSINESS WIRE)-- MACOM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave and photonic semiconductor products, today announced the MALD-37345, a quad 28G VCSEL driver with input equalizer, and the MATA-37344, a quad 28G transimpedance amplifier. This complete transmit/receive solution is targeted for short reach, VCSEL based 100Gbps onboard optics, but also suited for optical modules and active optical cable applications.

This chipset addition to MACOM's portfolio of short reach VCSEL drivers and TIAs is a next generation evolution of currently shipping MALD-37045 and MATA-37044, with the new chipset eliminating the need for Clock Data Recovery (CDR). This new chipset is backwards pin compatible with MACOM's industry leading MALD-37045 and MATA-37044 devices, enabling customers with the ability to mix and match parts to include or not include a CDR for extreme flexibility.

"We extended our existing portfolio of VCSEL drivers and TIAs with the additions of the MALD-37345 and MATA-37344. These devices, while optimized primarily for on-board optics, are still able to support active optical cables and optical modules," said Marek Tlalka, Director of Product Marketing at MACOM. "By eliminating the need for the clock and data recovery circuitry present in its predecessors, this chipset enables our customers to deliver ultra-low power and low cost transceivers that can be placed close to host ASICs for intra system optical connectivity. Additionally, with its compatibility to our existing MALD-37045 and MATA-37044 devices including CDR, the new chipset is a truly versatile solution for customers."

The VCSEL driver of the MALD-37345 includes programmable eye-shaping features and an input equalizer. The high-sensitivity TIA of the MATA-37344 features selectable bandwidth to support up to 28.05Gbps and lower speed legacy data rates, as well as an output driver with programmable output swing and 2-tap de-emphasis. Both devices are available in 2 mm x 3 mm die form, supplied in waffle packs, whole wafers or quartered wafers.

"Increasing data rates on the PCBs creates signal integrity and thermal constraints due to concentration on the optical IO at the front panel," said Simon Stanley, Founder and Principal Consultant at Earlswood Marketing Ltd, and Analyst at Large with Heavy Reading. "By placing a transceiver close to the host ASIC, these constraints are alleviated. MACOM's chip-set is enabling the deployment of 100Gbps onboard optical transceivers."

MACOM's portfolio of VCSEL drivers and TIAs will be shown at ECOC 2016, Booth #645, September 19th-21st at the Congress Center in Dusseldorf, Germany. To make an appointment, contact your local sales representative. For more information on MACOM's broad optical and photonic portfolio visit: www.macom.com.

ABOUT MACOM

MACOM enables a better-connected and safer world by delivering breakthrough semiconductor technologies for optical, wireless and satellite networks that satisfy society's insatiable demand for information.

Today, MACOM powers the infrastructure that millions of lives and livelihoods depend on every minute to communicate, transact business, travel, stay informed and be entertained. Our technology increases the speed and coverage of the mobile Internet and enables fiber optic networks to carry previously unimaginable volumes of traffic to businesses, homes and datacenters.

Keeping us all safe, MACOM technology enables next-generation radars for air traffic control and weather forecasting, as well as mission success on the modern networked battlefield.

MACOM is the partner of choice to the world's leading communications infrastructure, aerospace and defense companies, helping solve their most complex challenges in areas including network capacity, signal coverage, energy efficiency and field reliability, through its best-in-class team and broad portfolio of analog RF, microwave, millimeterwave and photonic

semiconductor products.

MACOM is a pillar of the semiconductor industry, thriving for more than 60 years of daring to change the world for the better, through bold technological strokes that deliver true competitive advantage to customers and superior value to investors. Headquartered in Lowell, Massachusetts, MACOM is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. MACOM has design centers and sales offices throughout North America, Europe, Asia and Australia.

MACOM, M/A-COM, M/A-COM Technology Solutions, M/A-COM Tech, Partners in RF & Microwave, and related logos are trademarks of MACOM. All other trademarks are the property of their respective owners.

For more information about MACOM, please visit www.macom.com follow [@MACOMtweets](https://twitter.com/MACOMtweets) on Twitter, join MACOM on [LinkedIn](https://www.linkedin.com/company/macom), or visit the MACOM [YouTube Channel](https://www.youtube.com/channel/UC...).

DISCLAIMER FOR NEW PRODUCTS:

Any express or implied statements in MACOM product announcements are not meant as warranties or warrantable specifications of any kind. The only warranty MACOM may offer with respect to any product sale is one contained in a written purchase agreement between MACOM and the purchaser concerning such sale and signed by a duly authorized MACOM employee, or, to the extent MACOM's purchase order acknowledgment so indicates, the limited warranty contained in MACOM's standard Terms and Conditions for Quotation or Sale, a copy of which may be found at:

<http://www.macom.com/purchases>

MACOM SALES INFORMATION, PLEASE CONTACT:

North Americas -- Phone: 800.366.2266

Europe -- Phone: +353.21.244.6400

India -- Phone: +91.80.43537383

China - Phone: +86.21.2407.1588

View source version on [businesswire.com](http://www.businesswire.com/news/home/20160919005662/en/): <http://www.businesswire.com/news/home/20160919005662/en/>

MACOM MEDIA CONTACTS:

MACOM Technology Solutions Inc.

Ozzie Billimoria, 978-656-2896

ozzie.billimoria@macom.com

or

Rainier Communications

Colin Boroski, 508-475-0025 x142

cboroski@rainierco.com

or

embedded PR

Anja-Maria Hastenrath, +49 (0)89 64913634-11

ah@embedded-pr.de

Source: MACOM Technology Solutions Inc.

News Provided by Acquire Media