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MACOM Announces MALD-37045 CDR+VCSEL Driver Interoperability with II-VI VCSELS

MACOM's Chipset Solution Successfully Implemented in 100Gbps QSFP Modules and Active Optical Cables

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM") (NASDAQ: MTSI), a leading supplier of high-performance analog, RF, microwave and optical semiconductor products, announced that their new MALD-37045, a four channel 25.78G/28.05G VCSEL driver featuring an integrated Clock Data Recovery (CDR) and an equalizer, has been proven as interoperable with II-VI Incorporated's Vertical-Cavity Surface Emitting Lasers (VCSELS). Together with the MATA-37044, a companion transimpedance and Limiting amplifier with CDR, MACOM's latest chipset solution has been implemented by customers in 100Gbps QSFP Modules and Active Optical Cables as a complete electronics solution with proven results. These industry-leading devices consume ultra-low power, making them the ideal solution for small form-factor applications.

This Smart News Release features multimedia. View the full release here:

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The MALD-37045 and the MATA-37044 both feature CDR functionality for use as a complete transmit and receive solution for optical modules and on-board optical engines. The reference-free CDRs in the MALD-37045 and the MATA-37044 are programmable, retiming at 25.78 Gbps, 27.95 Gbps and 28.05 Gbps. These companion devices have their respective outputs and inputs spaced on 250 μ m centers to maintain compatibility with standard optical interfaces, and each device can be individually controlled through the 2-wire serial interface.

The MALD-37045 provides customers with programmable bias and modulation current, enabling interoperability with variety of VCSEL lasers, including II-VI's lasers. The MATA-37044 includes a high-sensitivity TIA with selectable bandwidth to support interoperability with short wave and long wave photodetectors.

"MACOM is delighted to work with specialized companies like II-VI to enable customers with a proven, interoperable solution," said Marek Tlalka, Director of Marketing at MACOM. "Our new chipset expands MACOM's existing family of CDRs, laser drives and TIA products, and by combining our expertise in low-power and high-performance semiconductors with II-VI's established 25.8Gbps VCSELS, we are working to ensure that our customers get a fully interoperable, best in class solution."

"II-VI is excited to be working with MACOM, a leader in electronics for optical modules and cables," said Michele Agresti, II-VI Product Line Manager for Datacom VCSELS. "As a result of this synergy we are able to provide customers with a reliable, low power and proven solution."

The MALD-37045 and MATA-37044 are optimal one-stop solutions for optical modules, active optical cables and on board optical engines. They can be used in 100G Ethernet, EDR InfiniBand and 32G Fibre Channel applications, providing customers with a low power interoperable solution required by today's small form-factor optical subassemblies.

The MALD-37045 and MATA-37044 will be shown operating with II-VI VCSELS in private demonstrations for customers, partners, press and analysts at CIOE 2015, Booth #1B83, August 31-September 3 in Shenzhen, China. For more information or to schedule a demonstration, please contact your local MACOM sales representative.

MACOM is a leading supplier of optical networking products that enable the transition to 100G and beyond. By moving information from the core network to datacenters worldwide, MACOM has the deep product portfolio, technological capabilities and optical networking expertise to accelerate speed-to-market, enabling 10G-400G design and deployment.

Product information for the MALD-37045 and MATA-37044 can be obtained from the MACOM website at: www.macom.com.

ABOUT MACOM

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high-performance analog, RF, microwave, millimeterwave and photonic semiconductor products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies and products, MACOM serves diverse markets, including high-speed optical, satellite, radar, wired & wireless networks, automotive, industrial, medical and mobile devices. A

pillar of the semiconductor industry, we thrive on more than 60 years of solving our customers' most complex problems, serving as a true partner for applications ranging from RF to Light.

Headquartered in Lowell, Massachusetts, MACOM 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.

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

ABOUT II-VI INCORPORATED:

II-VI Incorporated, a global leader in engineered materials and opto-electronic components is a vertically integrated manufacturing company that develops innovative products for diversified applications in the industrial, optical communications, military, life sciences, semiconductor equipment, and consumer markets. Headquartered in Saxonburg, Pennsylvania, with research and development, manufacturing, sales, service, and distribution facilities worldwide, the Company produces a wide variety of application-specific photonic and electronic materials and components, and deploys them in various forms including integrated with advanced software to enable our customers.

II-VI Laser Enterprise GmbH is a globally operating and innovative company and an industry-leading provider of 980nm single mode laser pumps, High Power Laser Diode and VCSEL laser solutions. II-VI Laser Enterprise GmbH is a wholly-owned subsidiary of II-VI Incorporated (NASDAQ: IIVI, www.ii-vi.com) headquartered in Zürich, Switzerland. With state-of-the-art semiconductor laser design and production capabilities, processes and equipment the company manufactures high-power laser components enabling fiber and direct diode laser systems for material processing, medical, consumer and printing applications. In addition, II-VI Laser Enterprise manufactures pump lasers for optical amplifiers (both terrestrial and submarine applications) and vertical cavity surface emitting lasers (VCSELS) for optical navigation and optical interconnects.

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FOR 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

or

MEDIA CONTACTS:

M/A-COM 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

Gerlinde Knoepfle

+49 0-89-64913634-12

gk@embedded-pr.de

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