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MACOM Introduces VCSEL Driver and Transimpedance Amplifier with Integrated Clock and Data Recovery Chip-Set for 100Gbps Applications

MACOM's Four-Channel Devices Enable Development of Low Cost and Low Power QSFP28 Modules for 100Gbps Ethernet and EDR Infiniband

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave and optical semiconductor products, today announced the new MALD-37045, a four channel 25.78G/28.05G VCSEL driver and the MATA-37044, a TIA/Limiting amplifier, both with integrated Clock Data Recovery (CDR) functionality for use as a complete transmit and receive solution for optical modules and on-board optical engines. These industry-leading devices consume ultra low-power, making them the ideal solution for small form-factor applications.

The CDRs in the MALD-37045 and the MATA-37044 are programmable and retune at 25.78 Gbps, 27.95 Gbps, and 28.05 Gbps. The CDRs are reference-free and can be bypassed to support legacy or non-standard data rates. 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 driver features a high-performance CDR and an equalizer. The device provides programmable bias and modulation current, and a configurable alarm pin to flag faults on any channel.

The MATA-37044 includes a high-sensitivity TIA with selectable bandwidth to support legacy data rates, a limiting amplifier and an output driver with programmable output swing and de-emphasis. This amplifier features programmable slice level adjust, LOS threshold and an average photodiode current monitor (RSSI).

These companion devices 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 solution, reducing the overall cost of optical subassemblies.

"These devices further complement MACOM's expanding optical portfolio," said Marek Tlalka, Director of Marketing at MACOM. "The new chip-set expands MACOM's family of CDRs, laser drivers and TIA products, and by utilizing our expertise in low-power and high-performance semiconductors for optical applications, we enable our customers to develop the best in class 100G module solutions."

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.

The MALD-37045 and MATA-37044 are both available in a die form, supplied in waffle packs, whole wafers or quartered wafers. Devices are sampling now to development partners.

A demonstration of MACOM's CDR, laser driver and TIA product portfolio will be on display by appointment in MACOM's booth, #1947, at the Optical Fiber Communication Conference (OFC) in Los Angeles from March 24-26. For more information, please visit booth #1947 at OFC or 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, M/A-COM Tech is certified to the ISO9001 international quality standard and

ISO14001 environmental management standard. M/A-COM Tech has design centers and sales offices throughout North America, Europe, Asia and Australia.

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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

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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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