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MACOM Announces the World's First Monolithically Integrated Electro-absorption Modulated Laser Driver and CDR at OFC 2014

New Four Channel Integrated Device for 100Gbps Applications Breaks Power Consumption Barriers

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high performance analog RF, microwave, millimeter wave and optical products, today announced the industry's first 100Gbps (4x28Gbps) Electro-absorption Modulated Laser (EML) Driver monolithically integrated with Clock and Data Recovery (CDR) functions. This EML driver and other products will be on display at the Optical Fiber Communication Conference and Exposition (OFC 2014), March 11 -13, 2014 at the Moscone Exhibition Center, San Francisco.

High-density front panel networking applications utilizing small form-factor pluggable modules require dramatic reductions in component power consumption and footprint. MACOM's new M37047 four-channel device supports data rates required for multiple standards, including 100G Ethernet, Enhanced Data Rate (EDR) InfiniBand, 32G Fibre Channel and Optical Transport Network (OTU-4).

By integrating laser drivers with MACOM's low power CDRs, the device achieves the industry's lowest power consumption and smallest footprint. The device is optimized for transmitter functions in optical modules and allows customers to complement the already available M37046 CDR device, which is optimized for receiver functions. Both devices are packaged in ultra-small 4x4.5 mm form factors which make them an ideal chip-set solution for small form-factor optical modules.

The new M37047 device expands on MACOM's family of signal conditioners, cross-point switches and physical media devices (PMDs) for networking and enterprise solutions.

"The transition of network connectivity to 100Gbps, combined with the need for high density front panel optics drives the need for optical modules such as the CFP-4 and QSFP28 modules. To enable these small form-factor optics, semiconductor suppliers must break through traditional power consumption levels," said Beck Mason Vice President of R&D for JDSU. "By utilizing their CDR technology and monolithically integrating it with laser drivers, MACOM has been able to deliver a low power device needed by JDSU to enable a 100GBASE-LR4 CFP4 optical module. We are excited to partner with MACOM and demonstrate a CFP4 module utilizing their semiconductors."

"Our new integrated CDR with laser driver further expands our product portfolio addressing 100Gbps optical interconnect applications," said Hasnain Bajwa, Senior Vice President and General Manager, High Performance Analog, at MACOM. "The integration enables us to deliver low power demanded by our customers while reducing footprint, making our solution ideal for small form-factor optical modules. MACOM continues to invest in research and development for next generation optical connectivity with a goal to provide leading-edge performance to our customers."

MACOM's M37047 is currently exclusively sampling to development partners and will become available for sampling to the general market in the second half 2014. The device is showcased in MACOM's booth #631 and as part of JDSU's CFP-4 demonstration in booth #1315 at OFC 2014 in San Francisco, CA.

Additional product level information can be obtained by contacting MACOM sales via www.macom.com. For module level solutions contact your direct JDSU representative or online at www.jdsu.com.

About MACOM

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high performance analog RF, microwave, and millimeter wave 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, CATV, 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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Media Contacts:
M/A-COM Technology Solutions Inc.
Husrav Billimoria, 978-656-2896
Husrav.Billimoria@macomtech.com
or
Pacific Bridge Marketing
Rebecca Andersen, 202-596-2652
randersen@pacificbridgemarketing.com

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