



Partners from RF to Light

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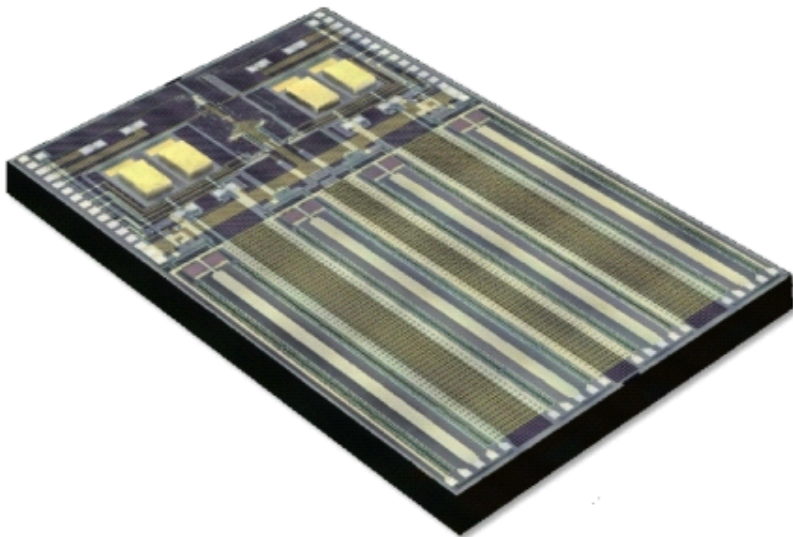
## MACOM Announces Industry's First CWDM4 L-PIC™ for 100G Datacenter Applications

*MACOM's New MAOP-L284CN L-PIC™ Integrates Lasers with Silicon Photonic Integrated Circuits*

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave and photonic semiconductor products, today announced the MAOP-L284CN, a silicon photonic integrated circuit integrated with lasers ([L-PIC™](#)) for a 100G transmit solution for CWDM4 and CLR4 applications.

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

<http://www.businesswire.com/news/home/20160308006441/en/>



MACOM's MAOP-L284CN features four high bandwidth Mach-Zehnder modulators integrated with four lasers (1270, 1290, 1310, and 1330 nm) and a CWDM multiplexer, with each channel operating at up to 28 Gb/s.

output edge coupler of this 4.1 x 6.5 mm die is the only optical requirement for implementing this device into QSFP28 transceiver applications. MACOM is also offering the MASC-37053A modulator driver integrated with CDR, matched with this L-PIC™ for optimized performance and power dissipation.

"Silicon-based photonic integrated circuits, or PICs, enable integration of optical devices such as modulators and multiplexer onto a single chip. We believe that MACOM's L-PIC™ solves the key challenge of aligning lasers to the silicon PIC with high yield and high coupling efficiency, making the adoption of Silicon PICs a reality for high-speed optical interconnects within the Datacenter," said Vivek Rajgarhia, Vice President of Strategy, High-Speed Networking, for MACOM.

MACOM's L-PIC™ will be on display for private demonstrations at OFC 2016, Booth #3101, March 22-24<sup>th</sup> in Anaheim, CA. To make an appointment, contact your local sales representative. For more information on MACOM's broad optical and photonic portfolio at OFC [click here](#).

### ABOUT MACOM:

M/A-COM Technology Solutions Inc. ([www.macom.com](http://www.macom.com)) is a leading supplier of high-performance analog RF, microwave, millimeter wave 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,

To meet the explosive growth of data traffic driven by video and mobile, major Internet content providers, such as Amazon, Microsoft, Google and Facebook, are building hyper-scale datacenters, which require high-speed interconnect solutions that are power efficient, compact and cost optimized. MACOM's Etched Facet Technology (EFT) lasers are attached to the Silicon PIC using its proprietary Self-Alignment process (SAEFT™) with high coupling efficiency, offering a power efficient solution at reduced manufacturing cost.

MACOM's MAOP-L284CN features four high bandwidth Mach-Zehnder modulators integrated with four lasers (1270, 1290, 1310, and 1330 nm) and a CWDM multiplexer, with each channel operating at up to 28 Gb/s. The L-PIC™ operates on a standard single mode optical fiber, and includes integrated tap detectors for fiber alignment, system initialization and closed loop control. A single fiber aligned to the

including high speed optical, satellite, radar, wired and wireless networks, 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 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.

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**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

or

**MACOM MEDIA CONTACTS:**

M/A-COM Technology Solutions Inc.

Ozzie Billimoria, 978-656-2896

[ozzie.billimoria@macom.com](mailto:ozzie.billimoria@macom.com)

or

Rainier Communications

Colin Boroski, 508-475-0025 x142

[cboroski@rainierco.com](mailto:cboroski@rainierco.com)

or

embedded PR

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

[ah@embedded-pr.de](mailto:ah@embedded-pr.de)

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