



*Partners from RF to Light*

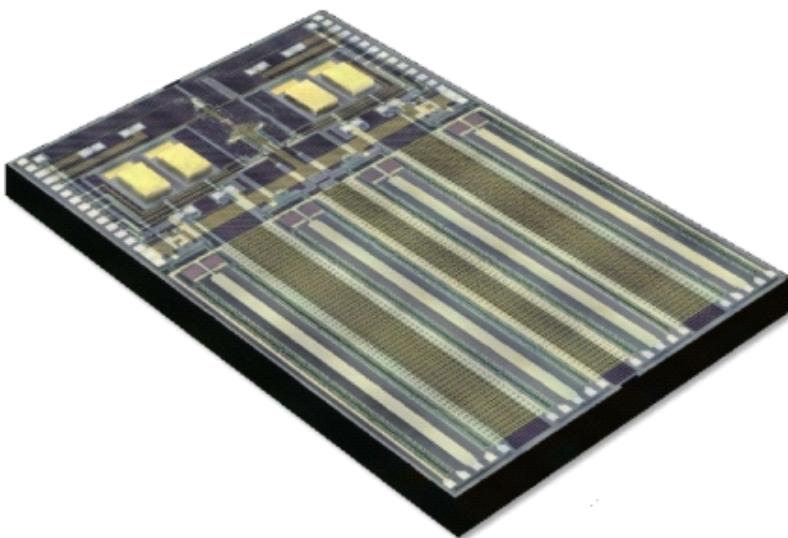
March 12, 2018

## MACOM to Drive Cloud Data Centers and 5G Optical Connectivity with L-PIC™-Enabled Solutions for CWDM4

- | *Silicon Photonics platform enables CWDM4, DR1 and FR4 L-PICs with optimal performance and cost-effectiveness to scale Cloud Data Center and 5G Telecom deployment*
- | *Automated self-aligning laser to PIC technology to enable breakthrough manufacturing throughput, capacity and cost structure*
- | *Self-calibration and firmware control optimizes manufacturability scalability*

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](#) ("MACOM"), today announced the [MAOT-025402](#) CWDM4 transmitter optical sub-assembly as a part of MACOM's L-PIC™ (Laser-integrated Silicon Photonic Integrated Circuit) solution for 100Gbps CWDM4. Leveraging our patented L-PIC the MAOT-025402 is designed to mate with the [MASC-37053A](#) CDR to form the complete high speed transmit path for QSFP28 CWDM4 solutions. MACOM's MAOT-025402 CWDM4 L-PIC solution will be on display at OFC 2018, Booth #2613.

This press release features multimedia. View the full release here:  
<http://www.businesswire.com/news/home/20180312005249/en/>



MACOM's L-PIC platform provides a highly integrated silicon photonic solution targeting specific data center applications that includes four CW lasers, monitor photodiodes, high bandwidth waveguides, modulators and multiplexers. Utilizing MACOM's patented self-aligning etched facet technology (SAEFT™) for precision attachment of the lasers to the silicon chip, the L-PIC platform removes the need for active laser alignment and offers a significant cost reduction to the customer, enabling mainstream deployment. (Photo: Business Wire)

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As the explosive growth of data traffic and insatiable demand forces Cloud Data Centers to rapidly scale their capabilities, MACOM is equipped to be a leader in the transition from 100Gbps to 400Gbps and from 4G to 5G with a cost-effective, high-performance and highly integrated interconnect chipset solution for CWDM4, scalable to FR4 and FR1/DR1 applications.

Core to the MAOT-025402 is the [MAOP-L284CN](#) L-PIC device, which integrates four high-performance 25Gbps CWDM wavelengths in a single silicon photonic integrated circuit (PIC) to communicate 100Gbps over duplex single mode fiber. MACOM's L-PIC platform provides a highly integrated silicon photonic solution targeting specific data center applications that includes four CW lasers, monitor photodiodes, high bandwidth waveguides, modulators and multiplexers. Utilizing MACOM's patented self-aligning etched facet technology (SAEFT™) for precision attachment of the lasers to the silicon chip, the L-PIC platform removes the need for active laser alignment and offers a significant cost reduction to the customer,

"MACOM is leveraging our L-PIC platforms to enable leading scalability that meets the rapidly increasing CWDM4 module demand," said Vivek Rajgarhia, Senior Vice President and General Manager, Lightwave, at MACOM. "The platform's automated self-aligning calibration and firmware control is anticipated to deliver the requisite combination of scale and cost for mainstream Cloud Data Center deployment."

MACOM's L-PIC platform delivers leading bandwidth critical to enabling CWDM4, and is now available in TOSA and at die level. Each L-PIC product includes a companion matched driver and PIC controller. Leveraging this three device chipset, customers are able to significantly reduce engineering risk and achieve faster time-to-market. The accompanying software provides automatic calibration and self-test capabilities, and significantly reduces customers' capital investment required for production lines. Fully integrated and pre-assembled, MACOM's sub-assembly platform is expected to provide the high performance required for achieving 100Gbps and 400Gbps data center links while reducing the transceiver manufacturers' engineering and capital equipment costs, enabling an overall faster time-to-market with lower investment.

MACOM will showcase its optoelectronics portfolio at OFC 2018, Booth #2613, March 13<sup>th</sup>-15<sup>th</sup> in San Diego, California. To make an appointment or to view the demonstrations, contact your local sales representative. For more information on MACOM's optical networking solutions visit: [www.macom.com](http://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.

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

#### **SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS:**

This press release contains forward-looking statements based on MACOM's beliefs and assumptions and on information currently available to MACOM. These forward-looking statements reflect MACOM's current views about future events and are subject to risks, uncertainties, assumptions and changes in circumstances that may cause those events or our actual activities or results to differ materially from those expressed in any forward-looking statement. Although MACOM believes that the expectations reflected in the forward-looking statements are reasonable, it cannot and does not guarantee future events, results, actions, levels of activity, performance or achievements. Readers are cautioned not to place undue reliance on these forward-looking statements. A number of important factors could cause actual results to differ materially from those indicated by the forward-looking statements, including, but not limited to, those factors described in "Risk Factors" in MACOM's Annual Report on Form 10-K and Quarterly Report on Form 10-Q filings with the Securities and Exchange Commission. MACOM undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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

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