

## MACOM and CIG to Demonstrate Complete 200G Optical Module Solution at OFC 2019, Delivering Low Power and Cost Economics for Data Center Applications

March 6, 2019

- 200G (4 x 50Gbps) QSFP module leverages high-performance MACOM analog chipset and CIG module design
- MACOM and CIG will host live demonstrations at OFC 2019 in the MACOM InnovationZone at booth #2739 and CIG booth #2421

SAN DIEGO--(BUSINESS WIRE)--Mar. 6, 2019-- [MACOM Technology Solutions Inc.](https://www.businesswire.com/news/home/20190306005023/en/) ("MACOM"), a leading supplier of semiconductor components, today announced a live demonstration of a complete 200G optical module solution designed in collaboration with Cambridge Industries Group ("CIG"), previewing this week at OFC 2019. The new 200G (4 x 50Gbps) QSFP module was developed by CIG leveraging a high-performance analog chipset from MACOM, and is optimized for volume-scale deployment in high-density Cloud Data Center links.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20190306005023/en/>



Targeted for faster, power efficient and lower cost optical interconnects, the solution is providing a clear pathway to 200G throughput speeds utilizing industry leading analog chipsets. MACOM's fully analog transmit and receive chipset is comprised of the MAOM-38053 four-channel transmit CDR with integrated EML driver and, on the receive side, features MACOM BSP56B photodetectors, a MATA-03819 quad TIA and the MASC-38040 four-channel receive CDR. (Photo: Business Wire)

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"MACOM is applying its expertise and market leadership in 25Gbps and 100Gbps solutions to 50Gbps PAM-4 applications and specifically to 200G QSFP and 2 x 200G OSFP/QSFP-DD modules to bring the benefits of low power and low latency solutions to Cloud Data Centers," said Marek Tlalka, Senior Director of Marketing, High-Performance Analog, MACOM. "We are excited to collaborate with CIG to deliver the industry's first 200G optical module based fully on a low cost and low power analog chipset."

"CIG has again advanced its leadership in 200G QSFP module applications with MACOM's low cost, lower power, fully analog technology for volume production in our highly automated production lines," said Michael Xin, VP of Sales and Marketing, CIG. "This breakthrough affirms our commitment to advancing optical module technology and enabling a new ecosystem for analog technology in Data Center interconnects."

All of the MACOM products highlighted in this week's 200G module demonstrations are sampling to customers today, with production availability targeted for 2<sup>nd</sup> half 2019. OFC 2019 attendees are invited to visit with MACOM and CIG at the San Diego Convention Center, California, in the MACOM InnovationZone at booth #2739 and CIG booth #2421 to preview the live demos and learn more about the solution.

### 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 data centers.

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 and Asia.

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#### **About CIG**

Founded in 2006, Cambridge Industries Group (CIG) has offices located in Shanghai, China, Santa Clara, USA and Tokyo, Japan and manufacturing facilities in China, Japan and Malaysia. CIG is a leading ODM / JDM / OEM vendor focuses on the following products:

- Wired Access
- Wireless Access
- Carrier Ethernet
- Home Networking
- Optical Modules

As a part of its core business, CIG has a "two-engine drive" model, which provides high quality R&D and state-of-the-art manufacturing collaborative services to the ICT industry. This model results in competitive advantages in technology leadership and innovation. Millions of CIG's products have been deployed globally. For more information about CIG, please visit [www.cigtech.com](http://www.cigtech.com)

#### **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, Quarterly Reports on Form 10-Q and other 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.

#### **DISCLAIMER FOR NEW PRODUCTS:**

Any express or implied statements in MACOM product announcements are not meant as warranties or warrantable specifications of any kind. The only warranty MACOM may offer with respect to any product sale is one contained in a written purchase agreement between MACOM and the purchaser concerning such sale and signed by a duly authorized MACOM employee, or, to the extent MACOM's purchase order acknowledgment so indicates, the limited warranty contained in MACOM's standard Terms and Conditions for Quotation of Sale, a copy of which may be found at: <https://www.macom.com/partner-login>

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