

# MACOM Announces Industry's First Single-Chip Solution for 100G Bidirectional Optical Connectivity

September 5, 2018

- *New MALD-37845 integrates CDRs, TIAs and VCSEL drivers in a single, low cost chip*
- *Full TX/RX solution is targeted for short reach 100G optical modules, AOCs and on-board optics*
- *MALD-37845 will be showcased at CIOE in Booth #1A32, and ECOC in Booth #579*
- *MALD-37845 is sampling to customers today*

LOWELL, Mass.--(BUSINESS WIRE)--Sep. 5, 2018-- [MACOM Technology Solutions Inc.](#) ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave and photonic solutions, today announced the industry's first integrated, single-chip transmit and receive solution for short reach 100G optical transceivers, active optical cables (AOCs) and onboard optical engines. The seamless integration of four-channel Transmit and Receive Clock Data Recovery (CDRs), four Transimpedance Amplifiers (TIAs) and four Vertical-Cavity Surface-Emitting Laser (VCSEL) drivers within the new [MALD-37845](#) will afford customers unrivaled ease of use and reduced costs.

Supporting a full range of data rates from 24.3 to 28.1 Gbps, the new MALD-37845 is designed for use in CPRI, 100G Ethernet, 32G Fibre Channel and 100G EDR InfiniBand applications, and will provide customers with a low power, single-chip solution ideally suited for small form-factor optical subassemblies. The MALD-37845 supports interoperability with a variety of VCSEL lasers and photodetectors, and is firmware-compatible with earlier-generation MACOM solutions.

"Optical module and AOC providers are under tremendous pressure to enable their customers with 100G connectivity at volume scale," said Marek Tlalka, Senior Director of Marketing, High-Performance Analog, MACOM. "We believe that the MALD-37845 overcomes the integration and cost challenges inherent to legacy multi-chip offerings, providing an elegant, high-performance solution for short reach 100G applications."

MACOM's MALD-37845 100G single-chip solutions are sampling to customers today, with production availability planned for the first half of 2019.

MACOM will be showcasing the new MALD-37845 at the China International Optoelectronic Exposition (CIOE), Booth #1A32, in Shenzhen, China, September 5<sup>th</sup> – 8<sup>th</sup>, and at the European Conference on Optical Communication (ECOC), Booth #579, in Rome, Italy, September 24<sup>th</sup> – 26<sup>th</sup>. For more information about MACOM's optical and photonic technology 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 and Asia.

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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

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