



Partners from RF to Light

March 22, 2017

## MACOM Enables 600G on a Single Wavelength for Long-haul/Metro Applications with 64 Gbaud Surface Mount Linear Modulator Driver Family

- | 64 Gbaud rate with 64 QAM modulation enables > 600 Gbps on a single wavelength
- | Increases faceplate capacity and reduces overall cost-per-bit
- | Enables next generation CFP2-ACO and DCO modules with 3X capacity improvement
- | Demonstration at OFC Booth #1736

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](#) ("MACOM"), today announced the [MAOM-00641X](#) series of three surface mount 64 Gbaud linear modulator drivers to enable the next generation of high capacity coherent transmission systems.

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

<http://www.businesswire.com/news/home/20170322005072/en/>



The MAOM-00641X series of modulator drivers have differential inputs and single-ended outputs for use with indium phosphide and lithium niobate modulators. They are available in the 14mm x 9mm surface mount package which was pioneered by MACOM and has since become the de-facto standard for modulator drivers used in the CFP2-ACO. The devices boast high bandwidth to support 64 Gbaud and excellent linearity to support 64 QAM modulation, while power dissipation can be optimized for the specific type of modulator.

(Photo: Business Wire)  
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Leveraging existing fiber installations, today's service providers are challenged to maximize their bandwidth and increase their data throughput-per-fiber. By maximizing the data rate on a single wavelength, operators can increase capacity and reduce the overall cost-per-bit of transmission. The transition to 100G has been enabled by coherent technology, while continued evolutions in PHY technology have provided the pathway to 200G, 400G and beyond.

Due to the shorter reach requirements, metro networks can use higher order modulation formats up to 64 QAM at baud rates of 64G, to achieve data rates of 600G on a single wavelength. The next generation CFP2-ACO with 64G/64QAM capability, currently being standardized by the OIF, will therefore enable capacity of 4.8Tbps per RU - a 3X improvement over current solutions.

"These new products reinforce MACOM's leadership position in surface mount drivers for coherent applications. We have been sampling for several months now and we are very happy to see that our product is enabling one of our key customers to demonstrate a 64G ACO at OFC this week," said Ray Moroney, Vice President and Business Line Manager for MACOM's Metro and Long Haul Products. "MACOM's drivers are shipping in high volume in the current generation of CFP2-ACO and CFP2-DCO and we are continuing to work closely with our module and system partners developing the next generation of pluggable coherent

MACOM's [MAOM-006417](http://www.macom.com/opto) will be on display at OFC 2017, Booth #1736, March 21st-23rd in Los Angeles, CA. To make an appointment, contact your local sales representative. For more information on MACOM's broad optical and photonic portfolio visit: <http://www.macom.com/opto>.

## **ABOUT MACOM**

MACOM is a new breed of analog semiconductor company — one that delivers a unique combination of high growth, diversification and high profitability. We are enabling 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 and 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 RF, microwave, millimeterwave and lightwave 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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