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MACOM Expands 5G Optical Connectivity Portfolio with 28Gbps TIAs for CPRI and Ethernet Applications

- | MACOM's MATA-03003/3006 TIA solutions with integrated PIN and APD are ideal for next generation 5G wireless, enterprise and storage networks
- | 2nd Generation TIAs feature low power, high sensitivity/overload and optical sub-assembly flexibility for lower system cost
- | TIA solutions to be showcased at OFC 2018, MACOM Booth #2613

LOWELL, Mass.--(BUSINESS WIRE)-- [MACOM Technology Solutions Inc.](#) ("MACOM"), today announced the sampling and pre-production of the new 28Gbps transimpedance amplifiers (TIA), including the [MATA-03003](#) and [MATA-03006](#) devices. This high-performance TIA solution supports data rates from 8.5 Gbps to 28 Gbps for 25G CPRI, 25G Ethernet and 32G Fibre Channel applications while featuring low power, high sensitivity/overload, reduced die size and flexibility in optical sub-assembly (OSA) for SFP28 optical modules.

This press release features multimedia. View the full release here:
<http://www.businesswire.com/news/home/20180312005099/en/>



Driven by 5G connectivity, data traffic demand is growing rapidly in wireless, enterprise and Cloud Data Center applications. Optical module customers are continually looking for ways to deliver lower power, smaller size and lower cost solutions. MACOM's new TIA devices offer a 20% power reduction, while providing improved sensitivity and extended overload performance, enabling the TIAs to be cost effective and ideal in high density optical connectivity solutions. MACOM's new TIA solution reduces the need for external components, streamlining hermetic To-header or chip-on-board (COB) assembly. (Graphic: Business Wire)

"MACOM's new TIAs expand our 28G TIA portfolio and leadership for the rapidly growing markets that are being driven by next-generation 5G network architectures," said Angus Lai, Director of Marketing, High-Performance Analog, MACOM. "Our newest family of TIAs offers superior optical sensitivity and overload with PIN and APD diodes at ultra-low power dissipation bundled with our highly integrated 28G VCSEL and DML laser driver, they enable the best-in-class 28G module solutions."

MACOM's MATA-03003 family of devices offer die pinout flexibility in optical sub-assembly, allowing them to be assembled in various To-headers with PIN detectors for short reach (SR) and long reach (LR) applications, while the MATA-03006 can be assembled with high performance APDs for extended reach (ER) applications. The new TIA devices feature a selectable low rate mode operation via RSSI control pin from 28G VCSEL and DML laser driver with integrated CDR ([MASC-37028/MALD-37030](#)), providing an improved receiver sensitivity in low data rates and backward compatibility with legacy 10G optical modules.

The MATA-03003/3006 are available in die form only. Pre-production samples are available today with expected production release in the first half of 2018.

MACOM will showcase a complete portfolio of 5G optical connectivity solutions at OFC 2018, Booth #2613, March 13th-15th in San Diego, California. To make an appointment, contact your local sales representative. For more information on

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MACOM's optical networking solutions visit: 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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