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MACOM Introduces 10Gbps Burst Mode Laser Driver with Integrated Limiting Amplifier and Clock and Data Recovery for Next Generation Passive Optical Network

Highly integrated device enables low power modules for 10G-PON

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. ("MACOM"), a leading supplier of high-performance analog RF, microwave and optical semiconductor products, today announced the new M02180, a low power, highly integrated, programmable burst mode laser driver integrated with continuous mode limiting amplifier and Clock and Data Recovery (CDR) designed for PON ONU/ONT applications up to 12.5Gbps.

The M02180 laser driver can be configured in three selectable modes of operation. It offers open loop operation with look-up tables, single closed loop control using monitor photodiode feedback or MACOM's proprietary dual closed loop operation for low cost BOSA-on-Board applications. The device features a limiting amplifier with 6mV input sensitivity and integrated CDR with reference free operation and can be bypassed to support non-standard data rates.

The M02180 includes an internal state machine controller and non-volatile memory with digital diagnostics, performing all the functions necessary for standalone operation without an external microcontroller. The internal state machine provides customers with the ability to acquire and scale industry standard monitoring parameters in real time. The M02180 also boasts a high voltage DC-DC controller for avalanche photodiode biasing with a built-in temperature based look-up table stored in an EEPROM.

MACOM's M02180 provides customers with low power operation of less than 90 mA typical. The device also offers sleep modes, burst-off current reduction modes and optional 2.5 V power supply operation for further power reduction.

"MACOM continues to expand the industry's most comprehensive optical product portfolio for fiber-access networks," said Angus Lai, Director of High-Performance Analog Product Marketing at MACOM. "This highly integrated device minimizes power consumption and external parts count, provides design flexibility and simplifies manufacturing processes, enabling our customers to develop the best in class 10G PON optical solutions."

MACOM is a leading supplier of optical networking products that enable the transition to 100G and beyond. By moving information from the core network to datacenters worldwide, MACOM has the deep product portfolio, technological capabilities, and optical networking expertise to accelerate speed-to-market, enabling 10G-400G design and deployment.

The M02180 is available in a low cost 4.5x4.5mm QFN package and supports industrial temperature operations. Device, evaluation board and reference design are sampling now.

A demonstration of MACOM's M02180 will be on display by appointment in MACOM's booth, #1947, at the Optical Fiber Communication Conference (OFC) in Los Angeles from March 24-26. For more information, please visit booth #1947 at OFC or www.macom.com.

ABOUT MACOM

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high-performance analog RF, microwave, millimeterwave and photonic semiconductor products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies and products, MACOM serves diverse markets, including high speed optical, satellite, radar, wired & wireless networks, automotive, industrial, medical and mobile devices. A pillar of the semiconductor industry, we thrive on more than 60 years of solving our customers' most complex problems, serving as a true partner for applications ranging from RF to Light.

Headquartered in Lowell, Massachusetts, M/A-COM Tech is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. M/A-COM Tech has design centers and sales offices throughout North America, Europe, Asia and Australia.

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