

MACOM Announces the Industry's Most Integrated 10G SFP+ Optical Module Chipset Solution

September 2, 2014

The ultra-low power 10G chipset will enable SFP+ form factor modules with less than 800mW of maximum power across operating conditions.

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Holdings Inc. ("MACOM"), a leading supplier of optical networking products today announced the industry's most integrated 10G chipset ideal for 10G/12G SFP+ and XFP optical module designs. The innovative chipset consists of a transimpedance amplifier (TIA) along with an integrated laser driver and a limiting amplifier with the option of an integrated clock and data recovery (CDR).

The chipset will enable SFP+ form factor modules with less than 800mW maximum power across operating conditions. MACOM offers a complete proven SFP+ reference design for quick seamless module designs.

The M02193 is a laser driver integrated with a limiting amplifier which supports data rates from 1Gbps to 12.5Gbps, while the M02190 is a laser driver integrated with reference-free CDR supporting data rates from 9.95Gbps to 11.7Gbps. Both laser drivers are designed to DC-couple to the laser diode in order to reduce overall power dissipation, eliminating external biasing circuits.

The laser drivers offer the industry's first 10G closed-loop extinction ratio (ER) control that eliminates the cumbersome laser look-up table calibration in production. Users only need to set the target ER and the laser drivers will automatically maintain this ER across operating conditions.

The M02190 and M02193 devices offer the highest integration in the industry with on-chip controller, EEPROM memory and an APD DC-DC controller - providing a complete solution reducing overall system costs. Completing the chipset is the M02131 low power, high sensitivity TIA that consumes less than 100mW typical power with better than -20dBm sensitivity.

"Our latest 10G chipset offers the industry's highest integration, lowering overall bill of material costs," said Angus Lai, Product Marketing Director, High Performance Analog at MACOM. "With its best in class power consumption and link margin, it is the ideal solution for new 10G SFP+ module designs."

MACOM will be highlighting the new 10G chipset alongside established physical media device (PMD) solutions at Booth # 1B73 at China International Optoelectronic Exposition (CIOE) 2014, September 2-5, 2014 at the Shenzhen Convention & Exhibition Center in Shenzhen, China.

Additional product information can be obtained by contacting MACOM sales via the website at: 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, and millimeter wave 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, CATV, 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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