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## **MACOM SPARTM Tiles Selected by Massachusetts Institute of Technology's Lincoln Laboratory as Testbed for the DARPA ACT Radar Development Program**

*Arrays at Commercial Timescales (ACT) program aims to establish a common radar modular architecture for next-generation radar systems*

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Holdings, Inc. ("MACOM") (NASDAQ: MTSI), a leading supplier of high-performance analog RF, microwave, millimeterwave, and photonic semiconductor products, today announced that its **Scalable Planar ARray (SPAR<sup>TM</sup>)** Tile technology has been selected by Massachusetts Institute of Technology's Lincoln Laboratory (MIT LL) for use in a test bed for the U.S Defense Advanced Research Projects Agency's (DARPA) Arrays at Commercial Timescale (ACT) program.

This Smart News Release features multimedia. View the full release here:  
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DARPA's ACT program is designed to streamline development and manufacturing cycles for next-generation radar, electronic warfare and communications systems by leveraging best practices established in the commercial domain. Working with MIT LL, MACOM will interface its SPAR Tiles with back-end electronics to explore new techniques for achieving new capabilities in digital phased arrays.

SPAR Tiles are RF assemblies containing antenna elements, GaAs and GaN semiconductors, transmit and receive modules and RF and power distribution networks. When combined with additional signal generation and receive and control electronics, the composite assembly forms the building block for the MPAR planar active electronically scanned antenna (AESA) for the radar system.

SPAR Tiles enable the transition from cumbersome traditional brick architectures to a more efficient planar approach. By leveraging MACOM's commercial manufacturing expertise, MACOM believes that SPAR Tiles will help drive cost efficiencies that are required to propel MPAR to mainstream adoption and deployment in the latter part of this decade.

"Working collaboratively with MIT Lincoln Laboratory, MACOM has played a leading role in advancing SPAR Tile technology to mainstream adoption," said Dr. Doug Carlson, Vice President, Strategy, MACOM. "We believe that the commercial manufacturing approaches taken in the implementation of SPAR Tiles are fully in line with DARPA's ACT program objectives. The interface of ACT technology with our tiles demonstrates a new approach to RF system implementation, which is anticipated to drive both shortened time to market and new levels of affordability while increasing overall system performance."

For more information about MACOM's SPAR Tile technology, visit [www.macom.com/activeantennas](http://www.macom.com/activeantennas).

### **MACOM IN ACTIVE ANTENNAS**

MACOM is leading the transition of civil and defense radar and communication systems to active antenna technology. Applying innovative, tile-based architectures and modern, commercial manufacturing practices, MACOM is enabling customers to build affordable, scalable radar systems with rapid time to market.

To learn more about MACOM's Active Antenna position, click here: <http://www.macom.com/activeantennas>.

### **ABOUT MACOM:**

M/A-COM Technology Solutions Holdings, Inc. ([www.macom.com](http://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 and 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, 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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**Special Note Regarding Forward-Looking Statements:**

This press release contains forward-looking statements based on MACOM management's beliefs and assumptions and on information currently available to our management. Forward-looking statements include, among others, information concerning future activities or trends, business strategies, industry conditions, market opportunities and all statements that are not historical facts, and generally may be identified by terms such as "anticipates," "believes," "could," "estimates," "expects," "intends," "may," "plans," "potential," "predicts," "projects," "seeks," "should," "will," "would" or similar expressions and the negatives of those terms.

Forward-looking statements contained in this press release 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 statements, including those factors described in "Risk Factors" in MACOM's filings with the SEC, including its Quarterly Report on Form 10-Q for the fiscal quarter ended July 3, 2015 as filed with the SEC on August 12, 2015. MACOM undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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