



Partners in RF & Microwave

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## MACOM Showcases End-to-End 12G-SDI Solution Using Altera FPGAs

*Altera's Stratix V FPGAs Interoperate with MACOM's 12G-SDI Chipset to Enable 4k60p Video on a Single Link*

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Inc. (MACOM), a leading supplier of semiconductor solutions for broadcast video infrastructure, today announced that Altera's Stratix® V field-programmable gate arrays (FPGAs) are interoperable with MACOM's 12G-SDI chipset, enabling systems designers to create offerings that support 4k60p video. The solution supports the proposed SMPTE 12G-SDI standard for increasing video throughput by a factor of four over previous connectivity standards and enables processing on a single card.

"As the video industry evolves to UHD, MACOM's 12G-SDI chipset enables 4k60p video using the lowest power, highest density and most economical solution available. By collaborating with Altera we can now offer customers the ability to efficiently process Ultra-high-definition video with a single link connection rather than multiple 3G-SDI connections," said Ryan Latchman, Vice President of Strategic Marketing and Applications Engineering, High Performance Analog, MACOM. "We are proud to deliver solutions that enable the broadcast industry to migrate to the next generation of broadcast video."

"Providing broadcast customers with FPGAs that can support the proposed 12G-SDI standard for 4k60p connectivity is a key focus for Altera," said Umar Mughal, Director, Broadcast Business Unit, Altera. "In showcasing our interoperability with the MACOM 12G-SDI chipset, we are helping systems designers get early access to an end-to-end solution that saves board space and money as they design their next-generation broadcast products."

Altera Stratix FPGA and SoCs enable high-performance, state-of-the-art products to market faster with lower risk and higher productivity. With Arria 10® FPGAs and SoCs, system designers achieve the highest performance at 20 nm offering a one speed-grade performance advantage over competing devices. Along with MACOM's 12G-SDI chipset, real estate constrained customers now have access to an integrated, high performing solution for their broadcast needs.

Available today, MACOM's 12G-SDI products address advanced video transport applications for manufacturers of next-generation 4K/8K video production solutions, including broadcast video routing and production switchers, video distribution amplifiers, video cameras and monitors. MACOM will be hosting a 12G-SDI technology roadshow in Tokyo, Japan from November 19-21, 2014 at the APA Hotel and Resort, Tokyo Bay Makuhari.

Earlier this month, MACOM was honored by the [Hollywood Post Alliance](#) with an Engineering Excellence Award for its 12G-SDI chipset. MACOM's portfolio for UHD 4K video transport applications includes its award-winning 12G-SDI [cable drivers](#), adaptive [cable equalizers](#), [reclockers](#) and [crosspoint switches](#).

### 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, 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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