MERCURY SYSTEMS™

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Mercury Systems Announces Innovative I/O Mezzanine Module Featuring In-Mission Dynamic FPGA Reconfiguration

Capable, Secure, Open Systems Architecture I/O Module Delivers Unrestricted Performance for High-Bandwidth, Low-Latency Sensor Processing Subsystems

CHELMSFORD, Mass., Sept. 15, 2015 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ:MRCY), announced the Ensemble® IOM-300 series of fiber-optic input/output (I/O) modules for complex image and radar processing and other high-bandwidth, low-latency sensor processing and networking applications.

Rugged and programmable, the Ensemble IOM-300 series are the industry's first open systems architecture-based XMC modules to feature two field-programmable gate array (FPGA) devices for streaming sFPDP, Ethernet and other wideband protocols. The primary Altera industrial-grade Stratix® V FPGA is a highly customizable processing resource for low-latency signal processing supported by a second configuration FPGA that enables in-mission, real-time FPGA image refreshes for the Stratix V. Each of the module's twelve channels may be programmed for data distribution, with or without user customization, via the primary FPGA device.

"Reconfiguring an FPGA's logic during a mission without affecting the entirety of the system has traditionally been a difficult task that greatly impacts the continued operation of the application," said Shaun McQuaid, Mercury Systems' Director of Product Management. "The Ensemble IOM-300's hardware and firmware architecture makes this reconfiguration not only possible, but simple, working with and insulating the underlying system software from any disruption. These modules offer unprecedented amounts of I/O processing power and configuration versatility - all within a low-SWaP open systems architecture XMC package that is both rugged and secure."

The primary Stratix V FPGA hosts Mercury's next-generation protocol offload engine technology (POET™). The configuration-FPGA, with its own always-operational PCIe pipe, enables IOM-300 modules to receive mission and system-level changes in real-time. POET optimizes the performance of open architecture protocols, while preserving existing IP with its backward compatibility with software protocols including Message Passing Interface/Open Fabrics Enterprise Distribution (MPI/OFED).

"Altera's Stratix V FPGA enables superior real-time signal processing in Radar, Electronic Warfare and Signals Intelligence systems because of its ability to process multiple channels, enabling capabilities such as floating point processing that improve the system capabilities and reduce development time," said Ian Land, Senior Product Line Manager for Altera's Military, Aerospace and Government Business Unit. "Combined with Mercury's rugged packaging technologies, it is an excellent choice for system developers who need to deliver next-generation systems in a short time to market."

Each Ensemble IOM-300 module is populated with up to twelve duplex fiber-optic channels and support sFPDP (VITA 17.1), 10 Gb/s Ethernet, Fibre Channel and PCIe® Gen 3 protocols. IOM-300 modules may be configured with the latest and fastest VITA 61 connectors for unrestricted data rates, preventing data bottlenecks.

Designed and manufactured in the USA, Ensemble IOM-300 modules are compatible with Mercury's suite of Ensemble sensor processing chain building blocks that include thermally efficient and rugged Air Flow-By™, Liquid Flow-By™ and conduction-cooled packaging in OpenVPX™ and AdvancedTCA® form-factors. Built-in customizable security building blocks spanning Mercury's Ensemble portfolio enable personalizable security approaches which remain private to Mercury's customers. IOM-300 modules are scheduled to be available in the fourth quarter of 2015.

For detailed specifications and general product information, visit www.mrcy.com/IOM300 or contact Mercury at (866) 627-6951 or info@mrcy.com.

Mercury Systems - Innovation That Matters™

Mercury Systems (NASDAQ:MRCY) is the better alternative for affordable, secure and sensor processing subsystems designed and made in the USA. Optimized for program and mission success, Mercury's solutions power a wide variety of critical defense and intelligence applications on more than 300 programs such as Aegis, Patriot, SEWIP, F-35 and Gorgon Stare. Headquartered in Chelmsford, Massachusetts, Mercury Systems is a high-tech commercial company purpose-built to meet rapidly evolving next-generation defense electronics challenges. To learn more, visit www.mrcy.com.

Forward-Looking Safe Harbor Statement

This press release contains certain forward-looking statements, as that term is defined in the Private Securities Litigation Reform Act of 1995, including those relating to the products and services described herein. You can identify these statements by the use of the words "may," "will," "could," "should," "would," "plans," "expects," "anticipates," "continue," "estimate," "project," "intend," "likely," "forecast," "probable," "potential," and similar expressions. These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. Such risks and uncertainties include, but are not limited to, continued funding of defense programs, the timing and amounts of such funding, general economic and business conditions, including unforeseen weakness in the Company's markets, effects of continued geopolitical unrest and regional conflicts, competition, changes in technology and methods of marketing, delays in completing engineering and manufacturing programs, changes in customer order patterns, changes in product mix, continued success in technological advances and delivering technological innovations, changes in, or in the U.S. Government's interpretation of, federal export control or procurement rules and regulations, market acceptance of the Company's products, shortages in components, production delays or unanticipated expenses due to performance quality issues with outsourced components, inability to fully realize the expected benefits from acquisitions and restructurings, or delays in realizing such benefits, challenges in integrating acquired businesses and achieving anticipated synergies, changes to export regulations, increases in tax rates, changes to generally accepted accounting principles, difficulties in retaining key employees and customers, unanticipated costs under fixed-price service and system integration engagements, and various other factors beyond our control. These risks and uncertainties also include such additional risk factors as are discussed in the Company's filings with the U.S. Securities and Exchange Commission, including its Annual Report on Form 10-K for the fiscal year ended June 30, 2015. The Company cautions readers not to place undue reliance upon any such forward-looking statements, which speak only as of the date made. The Company undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date on which such statement is made.

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CONTACT: Robert McGrail,

         Director of Corporate and Investor Communications

         Mercury Systems, Inc.

         +1 978-967-1366 / rmcgrail@mrcy.com
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