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Mercury Systems Announces Embedded Industry's Most Powerful OpenVPX InfiniBand-Based Processing Module for Advanced Radar and Other Compute-Intensive Applications

Innovative Fabrication and Cooling Technologies Combined With the Latest Intel(R) Xeon(R) Processor E5-2600 v2 Family Deliver SMP Compute Power in Rugged Open Standards Module, Providing up to 608 GFLOPS of Full Throttle Performance

CHELMSFORD, Mass., September 10, 2013 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (Nasdaq:MRCY), a best-of-breed provider of commercially-developed, open sensor and Big Data processing systems for critical commercial, defense and intelligence applications, announced the Ensemble® HDS6602 High Density Server, the embedded computing industry's most powerful 6U OpenVPX™ processing module. The Company expects the HDS6602 to be the only embedded, dual Intel® Xeon® processor E5-2600 v2-based processing module able to deliver peak Symmetric Multi-Processing (SMP) performance of 608 GLOPS. Using Mellanox's ConnectX®-3 technology to exploit InfiniBand™ or Ethernet as a high-performance interconnect in OpenVPX, the HDS6602 is well suited to meet the processing demands of the most complex Radar and other massively intensive embedded processing applications.

Powered by two 10-core Intel® Xeon® processors E5-2648L v2 (codenamed Ivy Bridge-EP) running at 1.9 GHz and supporting up to 128 GB memory, this 6U addition to Mercury's Ensemble series of sensor chain building blocks packs the most processing power into a standard, 1-inch pitch OpenVPX module. The leverage of Mercury and commercial technologies produces an affordable and efficient Size, Weight and Power to Cost (SWaP-C) OpenVPX processing engine for low risk technology adoption and fast deployment. Compatibility with prevailing software and industry standards, delivers a processing solution that is smooth and expedient to integrate. As localized processing power and interoperability become ever more critical, from Radar to on-platform processing and Big Data analytics, the HDS6602's processing density, rugged reliability and affordability offers new technical and performance possibilities.

"Mercury has unique domain experience deploying Intel's server-class technology and is pivotal to many of today's high-end, in-theatre solutions," said Gregg Ogden, Mercury Systems' Director of Solutions and Product Marketing. "Imagine the computing performance and possibilities of the latest 64-bit, high-end, data-center server blades packaged in a rugged OpenVPX module. The HDS6602 is just that: an intensely powerful, open standards, open fabric server blade for deployment in harsh environments. If your radar or other applications require awesome processing power, even in rugged environments, this is the resource to have."

"The 3rd generation Intel® Xeon® processor E5-2600 V2 product family is designed to bring server class computing to the edge of the network," explained Frank Schapfel, Director of marketing for Intel's Communications Infrastructure Division. "Mercury's ability to provide a robust, industry standard platform for the most intensively rugged environments delivers even more computing capability in military and aerospace applications."

Native Intel Quick Path Interconnect (QPI) v1.1 inter-processor interconnects enable virtual cache coherent processor cores delivering true deterministic processing. SMP underscores the open, yet highly configurable nature of this module to support the widest array of existing software (including Linux® and OpenCL™), tools and libraries. Intel® Advanced Vector Extension (AVX) implementation enhances floating-point and intensely complex algorithm processing ability. On-board Gen 3 PCIe™ pipes feed the data plane with either 40Gb/s Ethernet (TCP/IP and Sockets) or DDR/QDR/FDR10 InfiniBand (OpenMPI and OFED) via two Mellanox ConnectX-3 bridges. Adding to the module's drive-to-performance is Mercury's cooling domain expertise, including industry-leading Air Flow-By™, which more efficiently cools the HDS6602, enabling full-throttle processing. Air Flow-By delivers the most efficient cooling available while providing environmental isolation for the module from moisture, liquids and dust.

As with all Mercury modules, the HDS6602 can be quickly and seamlessly integrated with other building blocks by Mercury's Services and Systems Integration (SSI) group to create affordable sensor processing subsystems that fulfill complex application-specific requirements and effective subsystem upgrades.

The HDS6602 module will be available in the fourth quarter of 2013 in air-cooled, Air Flow-By™, conduction-cooled and VPX-REDI (VITA 48) configurations with either InfiniBand or Ethernet data plane fabric support.

For detailed specifications and general product information, visit www.mrcy.com/HDS6602 or contact Mercury at (866) 627-6951 or info@mrcy.com.

Mercury Systems — Innovation That Matters™

Mercury Systems (Nasdaq:MRCY) is a best-of-breed provider of commercially developed, open sensor and Big Data processing systems, software and services for critical commercial, defense and intelligence applications. We deliver innovative solutions, rapid time-to-value and world-class service and support to our prime contractor customers. Mercury Systems has worked on over 300 programs, including Aegis, Patriot, SEWIP, Gorgon Stare and Predator/Reaper. We are based in Chelmsford, Massachusetts. 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," 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 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 the U.S. Government's interpretation of federal procurement rules and regulations, market acceptance of the Company's products, shortages in components, production delays 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, 2013. 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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