Mercury Systems Introduces Second Generation of Space-Qualified Solid State Drives in 6U SpaceVPX Form Factor

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Improved error correction algorithms for long-term data integrity in radiation-intense environments

ANDOVER, Mass., April 04, 2019 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ: MRCY, www.mrcy.com) announced the start of customer engagements for its second generation of the TRRUST-Stor ™ VPX RT family of radiation-tolerant solid state drives (SSD) featuring up to 940GB user capacity in a 6U SpaceVPX ™ form factor. The new device delivers enhanced versatility with improved error correction code (ECC) and both Serial RapidIO® and Peripheral Component Interconnect Express (PCIe ®) host interfaces. As the first space-qualified storage devices leveraging the SpaceVPX standard for agile interoperability, the TRRUST-Stor VPX RT family enables accelerated system design directly addressing the growing demand for low Earth orbit (LEO) satellites and mission critical systems operating in radiation-intense environments.

In terrestrial environments, the NAND flash memory devices used in a traditional SSD device are prone to data corruption without the use of ECC. In radiation-exposed environments, data corruption is vastly accelerated due to the occurrence of single-event effects (SEE) and total ionizing dose (TID) degradation which negatively impact the functionality of the NAND flash memory used in the device.

To counter these damaging effects, Mercury has improved the ECC performance of the original 3U TRRUST-Stor VPX RT device. With 30% more error corrections built-in, the Company's new 6U device integrates high-reliability defect mitigation thereby enabling normal read and write operations in the presence of harmful ionizing radiation. Additionally, the new SSD features redundant NAND flash to further improve long-term reliability and data integrity.

Recognizing that no two missions have identical requirements, Mercury's new device is built on a platform to readily enable cost versus performance customization. New product variants can be quickly realized where the ECC, spare device count, user capacity and power consumption are optimized for specific programs. The scalable manufacturing and test resources of the Company's Advanced Microelectronics Centers assure a seamless transition of custom product variants through volume production.

"With the successful adoption of our 3U TRRUST-Stor VPX RT SSD for multiple LEO satellite applications, we are proud to introduce the next generation of commercial SSD technology optimized for space and other radiation-intense environments while sustaining greater than 1 GB/s data transfer rates," said Iain Mackie, Vice President and General Manager of Mercury's Microelectronics Secure Solutions group. "Whether our valued customers are designing a single satellite, a constellation of satellites or a terrestrial computing system exposed to radiation, Mercury is committed to reducing our customers' program risk by leveraging the scalable manufacturing and test capabilities of our Advanced Microelectronics Centers."

Today's product announcement exemplifies Mercury's commitment to expanding the breadth of its space-qualified product portfolio for defense prime contractors and commercial satellite manufacturers. As a further testament to this commitment, the Company is also developing new architectures to provide feature-rich space-grade SSD devices of up to 32TB user capacity for space radar applications. Mercury also offers a comprehensive portfolio of space-qualified RF and microwave solutions that have been trusted on every mission to Mars without device failure.

Mercury designs and manufactures its entire portfolio of space-qualified SSD devices in a Defense Microelectronics Activity (DMEA)-accredited facility for design, packaging, test and broker services. The Company's dedication to excellence in all aspects of industrial security has been recognized by the Defense Security Service (DSS) with Superior ratings of several of its sites, including this DMEA-accredited facility.

Mercury is now accepting orders for TRRUST-Stor VPX RT 6U flight units for delivery in the last quarter of calendar year 2019. Additionally, Mercury welcomes inquiries from customers whose system designs may benefit from a 3U form factor variant of the second generation product, which is currently under development. For application assistance, additional product information or purchase inquiries, customers can visit http://www.mrcy.com/Rad-Tolerant-SSD or contact Mercury at Secure.SSD@mrcy.com or (866) 627-6951.

Mercury Systems – Innovation That Matters®
Mercury Systems is a leading commercial provider of secure sensor and safety-critical processing subsystems. Optimized for customer and mission success, Mercury's solutions power a wide variety of critical defense and intelligence programs. Headquartered in Andover, Mass., Mercury is pioneering a next-generation defense electronics business model specifically designed to meet the industry's current and emerging technology needs. To learn more, visit www.mrcy.com and follow us on Twitter.

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 fiscal 2019 business performance and beyond and the Company's plans for growth and improvement in profitability and cash flow. 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 any U.S. Federal government shutdown or extended continuing resolution, 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, increases in interest rates, changes to

cyber-security regulations and requirements, changes in tax rates or tax regulations, 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, 2018. 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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