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Mercury Systems Unveils First 3U Transceiver Optimized for Spectral Efficiency in Congested RF Environments

Wideband, ultra-low-latency transceiver for SWaP-constrained electronic warfare applications

ANDOVER, Mass., April 26, 2017 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ:MRCY) (www.mrcy.com) announced the Ensemble® DCM-KU-4R2G-2T3G ultra-low-latency transceiver developed to meet the demanding requirements of advanced electronic warfare (EW) applications and to provide high-speed signal processing capability suited to ultra-wideband communications and synthetic aperture radar (SAR) applications. Designed in accordance with OpenVPX™ standards at Mercury's Huntsville, Ala. facility, the new transceiver is optimized for low probability of interception (LPOI) radio frequency (RF) signal detection in heavily contested electromagnetic environments. Ideal for digital radio frequency memory (DRFM) applications, Mercury's new product seamlessly couples coherent multi-channel, multi-board functionality with best-of-breed spectral purity in a 3U form factor ruggedized for harsh military environments.

Modern military forces rely increasingly on electronic warfare technologies to secure a competitive advantage prior to physical engagement with an adversary. At the same time, commercial applications, such as wireless data and voice transmission signals, crowd the spectrum, virtually masking electromagnetic signals of military interest. Maintaining a dominant position on the electromagnetic battlefield necessitates simultaneous discernment of small signals over a wide bandwidth of frequencies with exceptional precision. Swift identification of these signals is critical to generate an appropriate and timely response to recognized threats. Mercury's newest innovation addresses this signal detection challenge by densely integrating state-of-the-art RF and digital technologies to maximize spectral efficiency while simultaneously reducing physical size and weight.

"Leveraging our core competency of RF and digital integration expertise, our new SWaP-optimized transceiver enables swift identification of threats in the most heavily crowded electromagnetic environments encountered by our military forces," said Charlie Hudnall, Vice President and General Manager of Mercury's Embedded Sensor Products group. "Today's product announcement further validates Mercury's leadership position in advanced electronic warfare solutions protecting our warfighters from continuously evolving threats."

The transceiver supports flexible configuration of analog to digital converter (ADC) circuitry for processing of incoming RF signals of interest. The default configuration provides four ADC channels with digitization rates up to 2.0 gigasamples per second (GSPS). A channel interleaving option allows two ADC channels with enhanced digitization rates up to 4.0 GSPS per channel in dual-edges sampling (DES) mode. Digitized signals are processed with a powerful Xilinx® Kintex® Ultrascale™ KU115 field-programmable gate array (FPGA) with 4GB of external DDR4 memory. To facilitate application development, Mercury's EchoCore™ firmware for FPGA programming greatly reduces the time required for mission-specific solution development. Two low-latency digital to analog converters (DAC), each with sampling rates up to 3.0 GSPS, are available with user-selectable output modes. All product configurations are available in air- or conduction-cooled configurations.

For application assistance, more product information, or purchase inquiries for the Ensemble DCM-KU-4R2G-2T3G transceiver, customers can visit www.mrcy.com/3U-Transceiver or contact Mercury at (866) 627-6951 or info@mrcy.com.

Mercury Systems — Innovation That Matters™

Mercury Systems (NASDAQ:MRCY) is a leading commercial provider of secure sensor and mission 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.

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, increases in interest rates, 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, 2016. 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.

Contact:
Robert McGrail, Director of Corporate Communications
Mercury Systems, Inc.
+1 978-967-1366 / rmcgrail@mrcy.com