Mercury introduces industry-first heterogeneous processing module with integrated artificial intelligence functionality

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Ruggedized board leverages Versal adaptive compute technology for dramatically increased compute performance, efficiency and customization

Mercury Systems SCFE6931 Processing Module

Mercury's new SCFE6931 heterogeneous processing module features built-in AI functionality, delivering performance improvements up to 20× more than today's fastest FPGA implementations and 100× more than today's fastest CPU implementations.

ANDOVER, Mass., July 28, 2021 (GLOBE NEWSWIRE) -- Mercury Systems Inc. (NASDAQ: MRCY, www.mrcy.com), a leader in trusted, secure mission-critical technologies for aerospace and defense, today announced the SCFE6931 processing module, the first in the industry to incorporate integrated artificial intelligence (AI) processing functionality. Featuring dual Xilinx® Versal™ AI Core adaptive compute acceleration platform (ACAP) processors, the 6U OpenVPX ™ heterogeneous processing module delivers performance improvements up to 20× more than today's fastest FPGA implementations and 100× more than today's fastest CPU implementations. The result is significantly more processing power for a wide variety of digital signal processing-intensive (DSP) applications such as radar, 5G wireless, electronic warfare (EW) and signals intelligence (SIGINT).

“Demanding radar, artificial intelligence and similar processing-intensive applications rely on rapid technology adoption to keep pace with evolving threats,” said Neal Austin, vice president and general manager, Mercury Microelectronics. “Mercury’s new ACAP-based signal processing modules meet our customers’ demand for greater processing power needed for real-time tactical decision making. From essential components and modules to pre-integrated subsystems, our innovative portfolio of solutions is open, scalable and easily integrates with our customers’ platforms, demonstrating our commitment to Innovation that Matters.”

The Versal ACAP AI processing power and novel architecture maximizes performance, regardless of application or data type, by incorporating scalar processing, vector processing and next-generation FPGA fabric into a single 6U module. Designed to be delivered in a variety of cooling options, the SCFE6931 is ideal for applications that require high-performance operation in harsh environments. Additionally, the module’s OpenVPX, SOSA-aligned design enables agile system integration. Like all Mercury FPGA boards, the SCFE6931 module is built around EchoCore® IP to provide design verification testing infrastructure functionality right out of the box, optimizing time-to-market and reducing development time.

“Versal ACAPs have been architected to achieve new thresholds of system-level performance for a variety of aerospace and defense applications where size, weight and power (SWaP) are critical,” said Manuel Uhm, director of silicon marketing, Xilinx. “We are thrilled that Mercury Systems is developing rugged Versal-based solutions for faster time-to-market for these applications.”

Mercury envisions, creates and delivers innovative technology solutions purpose-built to meet their customers’ most pressing high-tech needs. For additional information or purchase inquiries, visit the SCFE6931 Dual Versal AI Core FPGA Processing Board product page, or contact Mercury at (866) 627-6951 or info@mrcy.com.

Mercury Systems – Innovation That Matters®
Mercury Systems is a global commercial technology company serving the aerospace and defense industry. Headquartered in Andover, Mass., the company delivers trusted, secure open architecture processing solutions powering a broad range of mission-critical applications in the most challenging and demanding environments. Inspired by its purpose of delivering Innovation that Matters, By and For People Who Matter, Mercury helps make the world a safer, more secure place for all. To learn more, visit mrcy.com, or 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 the products and services described herein and to fiscal 2021 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 epidemics and pandemics such as COVID, 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 USS 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 industrial security and cyber-security regulations and requirements, changes in tax rates or tax regulations, changes to interest rate swaps or other cash flow hedging arrangements, 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 USS Securities and Exchange Commission, including its Annual Report on Form 10-K for the fiscal year ended July 3, 2020. 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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A photo accompanying this announcement is available at https://www.globenewswire.com/NewsRoom/AttachmentNg/65887381-ebe9-4802-bc4b-fd932f02c5af