



Mercury introduces its flagship Model 5560 FPGA co-processing board powered by AMD Xilinx Versal® technology

September 27, 2022

ANDOVER, Mass., Sept. 27, 2022 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ: MRCY, www.mrcy.com), a leader in trusted, secure mission-critical technologies for aerospace and defense, today introduced the Model 5560, its next-generation 3U OpenVPX™ SOSA™ aligned co-processing board that is the first to be powered by the AMD Xilinx Versal® HBM series with integrated high-bandwidth memory.

Why It Matters

Electronic warfare and spectrum processing applications used by land, air, and sea-based platforms must capture input signals, process them, and deliver output signals on extremely short timelines. Near-peer adversaries are investing in capabilities to achieve split-second information advantages in warfare, and the United States and its allies must rely on trusted, secure processing to maintain technological superiority.

Many existing defense systems use field programmable gate arrays (FPGAs) as co-processors to accelerate data processing at the edge, but they run into bottlenecks when data is transferred to memory that is positioned elsewhere on the board, which delays decision making. Mercury's Model 5560 is directly integrated with the on-chip HBM via the Versal Programmable Network-On-Chip, resulting in up to an 8x increase in bandwidth and 63% lower power compared to a system using external memory. With gigabytes of HBM directly accessible by the Versal HBM adaptable engines, the overall amount of data that can be pushed through the system can be significantly increased. Model 5560 is the new flagship in Mercury's portfolio of co-processors that use HBM technology, joining the [Model 5585 and 5586](#) modules.

"The climate of continuous urgency in the geopolitical environment is escalating demand for faster, more powerful and secure aerospace and defense systems," said Kevin Beals, Vice President and General Manager of Mercury Signal Solutions. "By collaborating with technology leaders like AMD, we put the most powerful American innovations into the hands of those who ensure the safety of our nation."

"The combined power of high capacity on-chip High Bandwidth Memory, using our unique 2.5D packaging technology, coupled with our advanced Programmable Network-On-Chip technology, which is integrated into the highly specialized Model 5560 architecture, results in solution that is purpose-built for extremely demanding customer requirements," said Manuel Uhm, director of Silicon Marketing, AMD.

Processing massive amounts of data at the edge with Model 5560

- 16 GB of Versal high-bandwidth memory
- Versal HBM series delivers memory bandwidth of up to 820 GB/sec, 8x the bandwidth of DDR5 memory at 63% lower power
- Four 100 GigE high-speed optical data pipes for an aggregate data throughput rate of 50 GB/sec
- Navigator® FPGA design kit (FDK) and board support package (BSP) for operational control and IP development

Mercury envisions, creates, and delivers innovative technology solutions purpose-built to meet its customers' most pressing high-tech needs. For more information, visit mrcy.com or contact Mercury at (866) 627-6951 or info@mrcy.com.

Mercury Systems – Innovation That Matters®

Mercury Systems is a technology company that delivers commercial innovation to rapidly transform the global aerospace and defense industry. From data to decision, silicon to systems, A&D leaders turn to the products, services, technologies and people that comprise the secure, end-to-end Mercury processing platform—the exponential power that connects customers to what matters most. Innovation That Matters®. By and For People Who Matter. 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 business performance in fiscal 2023 and beyond, including our projections for revenue, organic growth, bookings growth, and adjusted EBITDA, our expectations regarding the size of our addressable market, and our 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, inflation, 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, changes in, or in the interpretation or enforcement of environmental rules and regulations, market acceptance of the Company's products, shortages in or delays in

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receiving components, supply chain volatility for critical components such as semiconductors, production delays or unanticipated expenses due to performance quality issues with outsourced components, inability to fully realize the expected benefits from acquisitions, restructurings and value creation initiatives such as 1MPACT, or delays in realizing such benefits, challenges in integrating acquired businesses and achieving anticipated synergies, effects of shareholder activism, 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 U.S. Securities and Exchange Commission, including its Annual Report on Form 10-K for the fiscal year ended July 1, 2022. 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/ac668ed5-cbc8-497e-a5f2-c8f0fddc4be2>