



## 3U VPX FPGA modules first to market with high-bandwidth memory

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### SOSA aligned boards usher in the next generation of FPGA performance and integration capabilities

ANDOVER, Mass., Jan. 24, 2022 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ: MRCY, [www.mrcy.com](http://www.mrcy.com)), a leader in trusted, secure mission-critical technologies for aerospace and defense, today announced the Model 5585 and Model 5586 SOSA aligned Xilinx Virtex UltraScale+™ high-bandwidth memory (HBM) FPGA 3U VPX modules. These are the first open architecture 3U products on the market to feature HBM (memory directly integrated on the FPGA chip), offering a 20x increase in memory bandwidth over traditional DDR4 memory. This innovative design dramatically boosts signal processing speeds to support size, weight and power (SWaP)-constrained compute-intensive applications such as electronic warfare, radar, signals intelligence and big data.

#### Why It Matters

When applied to mission-critical applications such as electronic countermeasures, this added processing power helps transform raw data into actionable intelligence in near real-time, allowing customers to gain insights quickly and make fast decisions confidently.

"Our new Model 5585 and 5586 modules are a breakthrough in FPGA technology designed to speed information to the end user, and the first to market with HBM technology" said Ken Hermanny, general manager, Mercury Microwave and Mixed Signal Assemblies. "The HBM memory chip stacking approach shortens how far data has to travel on chip, enabling smaller form factor subsystems to achieve superior power efficiency and space savings while eliminating processing and memory bottlenecks. It's an excellent example of Mercury's expertise in applying the latest commercial technology to aerospace and defense applications."

"The Virtex UltraScale+ with HBM provides a unique combination of memory, compute and I/O capability in a single high-performance FPGA," said Manuel Uhm, director for silicon marketing at Xilinx. "This level of integration enables demanding data acquisition and signal processing applications to operate with much lower latency and reduced SWaP than was possible with previous generations of FPGAs, which needed external memory. This real-time responsiveness is key for mission-critical applications."

#### Next-Generation Performance in a Compact and Standardized Form Factor

- Superior power efficiency and space savings in a single-slot, SOSA aligned 3U VPX profile
- HBM offers 3x the bandwidth per watt vs. GDDR5 memory while occupying 94% less space
- 20x increase in memory bandwidth over traditional DDR4 memory
- Dual 100 GigE interfaces offer fast, flexible backplane system connections
- Navigator Design Suite accelerates design with tools that enable complete operational control of the hardware and all IP functions in the FPGA

Mercury envisions, creates, and delivers innovative technology solutions purpose-built to meet their customers' most pressing high-tech needs. Visit the Model 5585/5586 SOSA aligned FPGA processor [product page](#) for more information or contact Mercury at (866) 627-6951 or [info@mrcy.com](mailto:info@mrcy.com).

#### About the SOSA Consortium

The Open Group Sensor Open Systems Architecture™ (SOSA) Consortium aims to create a common framework for transitioning sensor systems to an open systems architecture, based on key interfaces and open standards established by industry-government consensus. The SOSA Consortium enables government and industry to collaboratively develop open standards and best practices to enable, enhance, and accelerate the deployment of affordable, capable, interoperable sensor systems.

For more information about the SOSA Consortium, please visit [www.opengroup.org/content/sensor-open-systems-architecture-sosa](http://www.opengroup.org/content/sensor-open-systems-architecture-sosa).

#### 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](http://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 2022 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.

### Mercury's new Model 5585 and Model 5586 SOSA modules



Mercury's new Model 5585 and Model 5586 SOSA aligned Xilinx Virtex UltraScale+™ FPGA 3U VPX modules are the first open architecture 3U products on the market to feature high-bandwidth memory, offering a 20x increase in memory bandwidth over traditional DDR4 memory.

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 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 components, 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, increases in interest rates, changes to industrial security and cybersecurity 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 2, 2021. 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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