



## Defense Industry's First 16GB DDR4 High Density Secure Memory Device Introduced by Mercury Systems

October 25, 2018

**Breakthrough microelectronics technology enables miniaturization of 18 memory devices in a single, ruggedized package with 83% space savings**

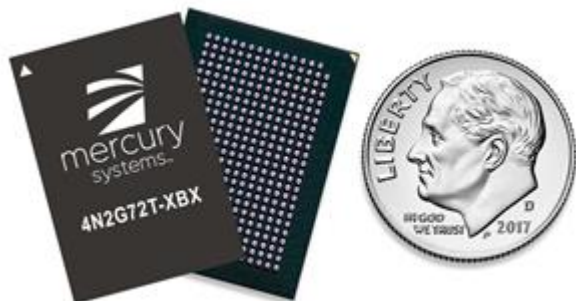


Photo of Mercury Systems' new 16GB DDR4 High Density Secure Memory Device

ANDOVER, Mass., Oct. 25, 2018 (GLOBE NEWSWIRE) -- Mercury Systems, Inc. (NASDAQ: MRCY, [www.mrcy.com](http://www.mrcy.com)) announced the start of customer engagements for the first BuiltSECURE™ 16GB high density double data rate fourth-generation synchronous dynamic random-access memory (DDR4 SDRAM) in a rugged, ultra-compact 16mm x 23mm ball grid array (BGA) package. The Company's new product was designed using a new packaging technology that doubles the number of the devices embedded in a single package without compromising performance or reliability. While delivering immediate benefits to defense prime contractors requiring DDR4 memory today, it also provides a low-risk path forward to commercializing fifth-generation (DDR5) memory devices with 5 GB/s data transfer speeds. Mercury's new rugged DDR4 device is ideally suited to address the need for memory resident data in unmanned systems applications and real-time execution of artificial intelligence (AI).

Conventional three-dimensional (3D) packaging technologies embed multiple memory devices in a single package to meet the processing demands of space-constrained military systems. Stacking multiple devices in a single package inherently degrades the signal integrity performance, resulting in low data transfer speeds and compromised long-term reliability performance. The new packaging technology commercialized in the 16GB BuiltSECURE memory device addresses these challenges by significantly reducing crosstalk and return loss while doubling the number of devices embedded in a single package compared to the similar-sized 8GB device. This new military-hardened product supports the high-speed bus rates of today's fastest processors and field programmable gate array (FPGA) devices, with data transfer rates of up to 2666 MB/s while operating over an extended temperature range of -55 to +125 °C.

"As the market leader in advanced packaging technologies for military applications, Mercury's enduring commitment to provide performance enhancements to our ultra-SWaP optimized memory devices sets us apart from the competition," said Iain Mackie, Vice President and General Manager of Mercury's Microelectronics Secure Solutions group. "Today's new product announcement exemplifies the power of Mercury's next-generation business model to successfully convert our substantial investment in research and development into products that deliver unprecedented capabilities to our military forces."

The Company's entire portfolio of military-grade, secure memory devices are designed and manufactured in a Defense Microelectronics Activity (DMEA)-accredited facility for design, packaging, test and broker services. The company's unwavering commitment to security extends far beyond product design and manufacturing, into the cadence of its daily operations. Several of Mercury's facilities have been recognized for excellence by receiving a Superior rating from the Defense Security Service (DSS).

Mercury is now accepting orders for prototypes of the 16GB DDR4 device for delivery in the second quarter of calendar year 2019. Additionally, Mercury's application engineering team is available to assist customers with the integration of BuiltSECURE DDR4 high density secure memory devices into their complex military computing systems. For application assistance, additional information or purchase inquiries, please visit [www.mrcy.com/16GB-DDR4](http://www.mrcy.com/16GB-DDR4) or contact Mercury at (866) 627-6951 or [secure\\_memory@mrcy.com](mailto:secure_memory@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](http://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 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 contractor 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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A photo accompanying this announcement is available at:

<http://www.globenewswire.com/NewsRoom/AttachmentNg/f4380d3c-6df8-496c-8f7f-de812b8ee476>



Source: Mercury Systems Inc