



Mercury's new rugged distributed processing solutions tackle the most challenging AI workloads at the edge

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First rugged network-attached GPU edge server to incorporate NVIDIA BlueField DPU technology

ANDOVER, Mass., March 23, 2022 (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 new rugged distributed processing (RDP) rackmount server series, revolutionary data center-class servers designed to deliver GPU parallel computing resources over high-speed Ethernet networks. These high-performance computing (HPC) servers are optimized for size, weight, and power (SWaP)-constrained, compute-intensive, low-latency workloads at the edge such as sensor processing, artificial intelligence (AI) and data analytics.

Accelerated by [NVIDIA® BlueField® data processing unit \(DPU\)](#) technology, the new servers deliver powerful GPU computing resources to distributed sensors or clients connected over the network. With a high-speed PCIe Gen 4 fabric, multiple 100G Ethernet interfaces and integrated management processor, RDP servers enable GPU processing without the SWaP and cost disadvantages of a separate server to host and manage the GPU.

Why It Matters:

The latest in data center-class compute performance is now readily available for aerospace and defense application deployment, particularly in space-constrained platforms such as aircraft, ships, submarines, and ground radar stations. This new technology dramatically accelerates AI for threat assessment, augmenting mission-critical decision making, and ultimately making those platforms and their crews safer.

"Customers are seeking the highest-performance solutions packaged in rugged and SWaP-reduced form factors to enable compute-intensive AI and deep learning applications at the edge," said Dusty Kramer, vice president and general manager, Mercury Edge. "Our new purpose-built RDP server series is the first in the industry to pair NVIDIA DPU and GPU technologies for use in vehicle, shipboard and aircraft applications at the edge. It's another example of how we collaborate with key Silicon Valley tech companies to make commercial technology profoundly more accessible to aerospace and defense."

Typically, GPU management is performed by a separate host computer, increasing cost and complexity. Mercury's RDP server, on the other hand, incorporates all GPU and DPU components into a ruggedized 1U chassis, making GPU resources accessible anywhere. RDP 1U servers can also be installed as a companion unit with other Mercury servers and data storage solutions for enhanced computing power, while multiple RDP systems can be deployed as a GPU cluster for massive data processing tasks. For embedded VPX system applications, Mercury offers a module with dual NVIDIA Turing GPUs. Future RDP products may support additional NVIDIA DPU and GPU modules.

"Innovations in breakthrough technologies such as AI, 5G and simulated environments are supercharged by next-generation data center infrastructure," said Kevin Deierling, senior vice president of networking at NVIDIA. "NVIDIA's accelerated computing platform equips innovators with extreme performance as well as the security and SWaP-optimized efficiency to push the boundaries of state-of-the-art technologies, making it the ideal choice for Mercury to integrate into their solutions."

Powerful Edge AI Capabilities with a Small, Ruggedized Footprint

- NVIDIA A100 Tensor Core GPU and BlueField-2 DPU technology in a standard 20" depth, 1U ruggedized form factor with rear I/O connectors
- Integrated host management using BlueField-2 Arm-core processors running Linux
- Low-latency PCIe Gen 4 backplane to dual 100G Ethernet ports for high-speed data transfer
- Eliminates need for x86 host server for management, reducing size, weight, and power footprint

Mercury envisions, creates, and delivers innovative technology solutions purpose-built to meet their customers' most pressing high-tech needs. For more information, visit the [rugged distributed processing server 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 discussed 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. These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated.

Mercury Systems Rugged Distributed Processing Server



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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 or delays in receiving 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, 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 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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A photo accompanying this announcement is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/01d6bd20-a6a3-4db0-835c-490cc0473675>