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Mercury Computer Systems Announces PowerBlock(TM) 15; a Manpack Sized Computing Platform

Company enhances the award-winning Ensemble(TM) 1000 family of systems with rugged, 2-slot chassis

CHELMSFORD, Mass., Sept. 15 /PRNewswire-FirstCall/ -- Mercury Computer Systems, Inc. (NASDAQ: MRCY), a leading provider of high-performance, embedded computing solutions for image, sensor, and signal processing applications, announced availability of a new, rugged, manpack sized system at the C4ISR Expo in Atlantic City. Enhancing the Ensemble 1000 Series family of computing systems, the 2-slot PowerBlock 15 has a convection-cooled or cold-plate mountable design, suitable for deployment on small platforms operating in harsh environments. Approximately the size of an external hard drive, the portable system can be configured with any of the processing, I/O, or storage modules currently used in the award-winning 6-slot PowerBlock 50 chassis.

"The Ensemble 1000 Series delivers embedded, real-time computing power for small platforms. It is currently being used by an Asian Pacific ally in the development phase of a new, airborne Synthetic Aperture Radar," said Randy Dean, Vice President, Integrated Solutions at Mercury. "The PowerBlock 15 chassis adds flexibility, scaling down to support even smaller platforms. This innovative new system occupies only 46 cubic inches of space and weighs less than 3 pounds. Configured with an Intel processor and a Graphics Processing Unit, it is a compact, powerful, and tough real-time computing platform."

Ensemble 1000 Series systems, using either the PowerBlock 15 or the PowerBlock 50 chassis, are scalable, are optimized for real-time applications, and balance processing power with high-bandwidth interprocessor communications and external I/O bandwidth. The innovative technologies that are a part of the earlier Ensemble systems are evident in the new version as well. A point-to-point PCI Express connection delivers high-throughput, non-blocking, serial connectivity between processing and I/O nodes. External I/O can be customized to accommodate virtually any type of digital or analog I/O. Processing options include the Intel EP80579 SoC (system-on-chip) device, Xilinx® Virtex™-4 and Virtex-5 FPGAs, the AMD M96 GPU (Graphics Processing Unit), and Freescale PowerQUICC processors, all supported by SATA hard-disk and solid-state storage drives.

The Ensemble 1000 Series systems are available now. For more information, visit www.mc.com/ES1000 or contact Mercury Computer Systems at (866) 627-6951 or info@mc.com.

Mercury Computer Systems, Inc. - Where Challenges Drive Innovation™

Mercury Computer Systems (www.mc.com, NASDAQ: MRCY) provides embedded computing systems and software that combine image, signal, and sensor processing with information management for data-intensive applications. With deep expertise in optimizing algorithms and software and in leveraging industry-standard technologies, we work closely with customers to architect comprehensive, purpose-built solutions that capture, process, and present data for defense electronics, homeland security, and other computationally challenging commercial markets. Our dedication to performance excellence and collaborative innovation continues a 25-year history in enabling customers to gain the competitive advantage they need to stay at the forefront of the markets they serve.

Mercury is based in Chelmsford, Massachusetts, and serves customers worldwide through a broad network of direct sales offices, subsidiaries, and distributors.

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 Ensemble 1000 Series products described herein. You can identify these statements by our use of the words "may," "will," "should," "plans," "expects," "anticipates," "continue," "estimate," "project," "intend," 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, general economic and business conditions, including unforeseen weakness in the Company's markets, effects of continued geo-political 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, continued funding of defense programs, the timing of such funding, changes in the U.S. Government's interpretation of federal procurement rules and regulations, market acceptance of the Company's products, shortages in components, production delays due to performance quality issues with outsourced components, inability to fully realize the expected benefits from acquisitions or delays in realizing such benefits, challenges in

integrating acquired businesses and achieving anticipated synergies, and difficulties in retaining key customers. These risks and uncertainties also include such additional risk factors as are discussed in the Company's recent filings with the U.S. Securities and Exchange Commission, including its Annual Report on Form 10-K for the fiscal year ended June 30, 2009. 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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