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Mercury Computer Systems Enables Scalable, Cost-Effective Solutions with New MicroTCA Platform

Company supports Communications and Semiconductor Manufacturing industries with innovative Ensemble 2000 chassis that has integrated fabric and MCH support

CHELMSFORD, Mass., May 27, 2010 (BUSINESS WIRE) --Mercury Computer Systems, Inc. (NASDAQ: MRCY), a leading provider of open, embedded, high-performance computing systems, software, and services for image, sensor, and signal processing applications, announced a systems-level enhancement for solutions based on the MicroTCA standard. The new, innovative six-slot chassis is part of Mercury's Ensemble 2000 MicroTCA Platform, a standards-based solution built around the power, functionality, and scalability of RapidIO®, Ethernet, IPMI, AdvancedMC®, and MicroTCA® industry standards.

Switches are built into the chassis backplane to support both Gigabit Ethernet (base interface) and a choice of communications fabrics including RapidIO, 10 Gigabit Ethernet, and PCI Express. The backplane also includes built-in system manager functionality. This built-in functionality means that a separate MCH module is not required, reducing costs and allowing all slots to be configured with AMCs.

"Designers of sophisticated industrial equipment, in industries such as Communications and Semiconductor Manufacturing, need high-performance, high-bandwidth embedded computing in cost-effective packages," said Steve McPherson, Director of Business Development at Mercury. "With its compact size, scalability, and integrated system functionality, our new six-slot MicroTCA chassis provides a flexible platform for building those types of solutions."

The new Ensemble 2000 chassis is also appropriate for a wide range of system sizes, with multi-chassis scalability built into the design. It supports mechanical stacking in a 19-inch rack; and the base interface, fabric interface, and clock can all be daisy-chained across multiple chassis. Robust system configurations are also supported by Mercury's industry-leading family of processor AMCs, including Xilinx® FPGAs, TI® DSPs, PowerQUICC®, Power Architecture™ MPC 8641D, and Intel® Penryn® processors.

For more information and availability on Mercury's comprehensive line of MicroTCA and ATCA solutions, visit www.mc.com/atca, or contact Mercury 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 open, embedded computing systems, software, and services 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, semiconductor equipment manufacturing, commercial computing, 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 2000 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.

Ensemble is a trademark, and Challenges Drive Innovation is a registered trademark of Mercury Computer Systems, Inc. Other product and company names mentioned may be trademarks and/or registered trademarks of their respective holders.

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