



AMCC Unveils High Performance PowerPC'R' Processor for Embedded Storage and Networking Applications

SAN JOSE, Calif.--(BUSINESS WIRE)--Oct. 5, 2004--

At the Fall Microprocessor Forum, Applied Micro Circuits Corp. (AMCC) (NASDAQ: AMCC) today unveiled its high performance PowerPC® 440SPe processor. Based on the PowerPC 440 superscalar core, the PowerPC 440SPe offers higher bandwidth, PCI Express based connectivity and design flexibility for demanding embedded storage and networking applications.

The first processor to offer three independent PCI Express interfaces and one PCI-X version 2.0 interface, AMCC's PowerPC 440SPe is ideally suited for RAID controllers and storage area networking (SAN) equipment. The 440SPe supports one 8-lane PCI Express upstream interface and two 4-lane downstream interfaces. In addition, the 440SPe supports a 64-bit PCI-X interface, which operates at double data rate (DDR266), with a peak bandwidth of 2.13GBps. The PCI Express and PCI-X interfaces can function as an opaque PCI Express to PCI Express or PCI Express to PCI-X bridge, allowing data to be transferred directly between these buses. The processor's CoreConnect™ 128-bit Processor Local Bus (PLB) is implemented with a two-way crossbar architecture, each segment has separate 128-bit read and write data buses that may operate concurrently, providing up to 10.4GBps of total on-chip bandwidth at 166MHz.

"By announcing a new PowerPC chip less than six months after acquiring a significant portfolio of PowerPC intellectual property from IBM, AMCC is demonstrating its serious intent to be a major PowerPC supplier alongside IBM and Freescale," said Tom R. Halfhill, senior analyst for In-Stat/MDR's Microprocessor Report. "In addition, the new PowerPC440SPe is important in its own right, bringing the latest PCI Express interfaces to networking I/O and storage applications."

The PowerPC 440SPe also offers an XOR accelerator, performing functions critical for storage applications, such as parity generation and check functions to safeguard against data corruption. I/O processing and other applications using multiple processors can also benefit from the integrated messaging unit, designed to meet I20 specifications. The 440SPe incorporates an enhanced DDR memory controller that supports DDR I 166/333 and DDR II 333/667 memory devices. The 256KB on-chip SRAM can be configured to enhance performance either as an L2 cache or as a memory-mapped SRAM for low-latency access, ideal for storing data packets, critical code segments, Ethernet or DMA descriptors, or other application-specific data.

The PowerPC 440SPe also integrates an extensive set of peripherals including a gigabit Ethernet MAC (GENET), two IIC controllers, a host of GPIO pins and three UARTs that support various functions in user applications.

"We are pleased to bring the performance of our storage solutions and operating system technology to the next generation of POWER embedded devices such as, AMCC's PowerPC 440SPe," said Jim Schrand, vice president of marketing, Wasabi Systems. "We are especially excited about the PowerPC 440SPe as it breaks new ground by offering customers a remarkable level of bandwidth and connectivity to meet the requirements of tomorrow's demanding applications."

"The feature rich PowerPC 440SPe is a valuable addition to AMCC's high performance PowerPC 440 core, continuing its legacy of exceptional support for compute-intensive applications. We are excited that MontaVista Software will continue to enable developers selecting Linux as the preferred OS for optimizing applications running on PowerPC 440 family of devices," commented Joe Samagond, director of corporate marketing, MontaVista Software.

AMCC's PowerPC processors are supported by AMCC and more than 100 third-party vendors to provide a full range of tools necessary for manufacturers to develop products quickly and efficiently. Sampling for the 440SPe will begin in the first quarter of 2005. For additional technical information, visit <http://www.amcc.com/BestInClass/440SPe>. For a photo of this device, visit <http://www.amcc.com/BestInClass/440SPePhoto>.

About AMCC

AMCC provides the essential building blocks for the processing, moving and storing of information worldwide. The company blends systems and software expertise with high-performance, high-bandwidth silicon integration to deliver silicon, hardware and software solutions for global wide area networks (WAN), embedded applications, storage area networks (SAN), and high-growth storage markets such as Serial ATA (SATA) RAID. AMCC's corporate headquarters are located in San Diego, California. Sales and engineering offices are located throughout the world. For further information regarding AMCC, please

visit our web site at <http://www.amcc.com>.

Forward Looking Statements

The statements contained in this press release that are not purely historical are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Such forward-looking statements, including statements relating to the products and markets discussed in this press release are subject to a number of risks and uncertainties, including the risk that the products would not be successfully or timely developed, completed or manufactured or achieve market acceptance or that the markets for these products will not materialize or grow as anticipated, risks relating to general economic conditions, as well as the risks and uncertainties set forth in the Company's Annual Report on Form 10-K for the year ended March 31, 2004, and in other filings of the Company with the Securities and Exchange Commission. As a result of these risks and uncertainties, actual results may differ materially from these forward-looking statements. The forward-looking statements contained in this news release are made as of the date hereof and AMCC does not assume any obligation to update any forward-looking statement.

Product photos, datasheets and application notes are available upon request. AMCC is a registered trademark of Applied Micro Circuits Corporation.

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CONTACT: Applied Micro Circuits Corp., San Diego

Tom Hume, 858-535-3274

Email: thume@amcc.com

or

AMCC Editorial Contact:

The Ardell Group

Emily Agan, 858-792-2939

Email: emily@ardellgroup.com

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