



AMCC Unveils Advanced PowerPC 460SX Storage Processor for High Throughput RAID Acceleration

Feature-rich embedded device offers time to market advantages and interoperability with 6G SAS and 8G FC

SUNNYVALE, Calif., Jun 02, 2008 (BUSINESS WIRE) -- Applied Micro Circuits Corporation (NASDAQ:AMCC), a global leader in embedded Power Architecture(TM) processing, storage solutions and optical transport, announced the newest member of its storage processor family, the PowerPC(R) 460SX. Based on the Power Architecture standard, the PowerPC 460SX storage processor integrates a PowerPC core and specialized functions for high-performance storage and storage networking applications.

With a rich feature set and high performance, the PowerPC 460SX is designed to meet the demanding requirements of server direct-attached and external storage applications. The unique combination of high-performance IO and memory subsystems also make the PowerPC 460SX ideal for high-bandwidth protocol bridging applications.

The PowerPC 460SX, with clock frequencies ranging from 833MHz to 1.4GHz, provides multiple PCI Express Gen 2 interfaces for high bandwidth peripheral connectivity and efficient PCIe to PCIe bridging. For storage applications, the PowerPC 460SX provides high throughput RAID 5 and RAID 6 hardware-acceleration support capable of achieving 1500MB/s RAID 5 and 1400MB/s RAID 6 full stripe write performance. It also includes XTS-AES and GCM-AES encryption acceleration that is compliant with the IEEE 1619 and 1619.1 standards. For network attachment, the PowerPC 460SX includes four GbE Ethernet MACs, TCI/IP assist, QoS and a crypto engine for IPsec and SSL. With these features, the PowerPC 460SX can improve both system performance and data security, by performing RAID 5 and RAID 6 parity calculations while at the same time encrypting and decrypting data in transit and data at rest.

"AMCC's PowerPC 460SX takes storage processors to a new level. Its extensive I/O connectivity, high CPU performance, RAID5/6 and encryption engines, low power consumption, and feature integration make this processor well suited for a wide range of storage applications," said Linley Gwennap, Principal Analyst of The Linley Group. "Combined with AMCC's hardware-accelerated RAID-on-Linux(R) technology, the new PowerPC 460SX provides customers with a complete system solution for seamless integration."

To support the high bandwidth transactions, the PowerPC 460SX features two internal buses that support simultaneous read/write operations for a combined total of 19.2 GBytes/s of peak bandwidth. This bus topology enables concurrent transactions for write data to memory, read data from memory, encrypt/decrypt data, and computation of RAID parities.

"Customers are demanding high-performance, feature-rich storage solutions which increase throughput while lowering power consumption," said Sam Fuller, Vice President of Marketing for AMCC. "Our new storage processor enables new storage systems to take full advantage of the new 6G SAS and 8G Fibre Channel technologies and maintains AMCC's performance and feature leadership in storage processing."

Samples of the PowerPC 460SX will be available in 3Q08. For more information on this and other AMCC storage processors please contact your nearest AMCC sales office or visit: <http://www.amcc.com/Embedded/>.

About AMCC

AMCC provides leadership semiconductor solutions to process, transport, and store digital information for the world's wired and wireless networks. As a leading supplier of Power Architecture(TM) based processors and with world-class expertise in SONET and Ethernet protocol processing, PHY technology, storage processors and RAID controllers our products are the foundation of the IP Communications Revolution. AMCC's 3ware(R) SAS and SATA RAID controllers deliver cost-effective, high-performance, high-capacity storage for enterprises and consumers worldwide in applications like disk-to-disk backup, near-line storage, network-attached storage (NAS), video, and high-performance computing. For further information regarding AMCC, please visit our website at <http://www.amcc.com>.

Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements may be identified by words such as expects, anticipates, plans, believes, estimates, will or words of similar meaning. Such forward-looking statements, including statements relating to the products discussed in this press release, are subject to a number of risks and uncertainties, including the risk that the products may not be successfully or timely developed, completed or manufactured or achieve market acceptance, 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, and in the Company's other SEC filings. 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 press release are made as of the date hereof and AMCC does not assume any obligation to update any forward-looking statement, whether as a result of new information, future developments or otherwise.

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