May 2, 2013

Micron Unveils New PCIe I/O Accelerator

The New Micron P420m PCIe Accelerator Card Delivers High Performance, Reliability and Low Latency for Enterprise Servers and Storage Applications

Key Messages:

- Vertically integrated solution, utilizing Micron's MLC NAND, controller, DRAM, firmware and drivers
- Delivers ultra-low latency, enabling fast and predictable response times
- Designed using Micron's XPERT architecture for improved performance and reliability
- Available in both 2.5-inch and HHHL form factors in 350GB, 700GB and 1.4TB capacities[i]

Multimedia Elements:

- [Media Kit](link)

BOISE, Idaho, May 2, 2013 (GLOBE NEWSWIRE) -- Micron Technology, Inc. (Nasdaq:MU) today announced a new PCIe all-flash I/O accelerator to improve overall performance in enterprise servers, appliances and storage platforms. The new Micron P420m combines consistent performance with the inherent power efficiency of an all-flash system to deliver improved economics for enterprise data centers. The P420m accelerates performance of today's demanding data center applications, including online transaction processing (OLTP), data warehousing and virtualization.

Ultimately, Micron's P420m [ends the wait game](link) for digital data. It features ultra-low latency performance that enables fast and predictable response times to information frequently used in data center environments. When tested against competing PCIe solutions in a MySQL server running an OLTP benchmark, the P420m is the fastest and most consistent performer, delivering more than [3,200 web server requests per second](link). It handily manages online requests during peak traffic times, improving the overall end-user experience.

"The P420m is a true workhorse—it delivers where performance matters most," said Ed Doller, VP and general manager of Micron's Enterprise SSD division. "Introduction of the P420m is a testament to our commitment to storage innovation for all levels of integration. We've expanded our portfolio to address the changing storage needs of today's data centers, regardless the workload."

Micron will be showcasing the P420m, along with a broad portfolio of storage solutions, at EMC World, May 6—9 in Las Vegas (Booth #834).

The P420m is designed using Micron's custom-designed ASIC controller, advanced 25-nanometer (nm) multilevel cell (MLC) NAND flash technology, DRAM, firmware and drivers to create a truly vertically integrated solution. The vertical integration begins with intimate knowledge of the NAND media and extends all the way to the end-system design, manufacture and drivers. This end-to-end involvement ensures delivering the ultimate level of storage quality and efficiency.

The P420m uses Micron's [Extended Performance and Enhanced Reliability Technology (XPERT) architecture,](link) which closely incorporates the storage and controller through highly optimized firmware algorithms and hardware enhancements. The end result is a set of market-focused enterprise features that deliver ultra-low latencies, improved data transfer time, power-loss protection and cost-effectiveness, along with higher capacities and power efficiency.

The P420m low-profile accelerator card comes in a half-height, half-length (HHHL) form factor for rackmount servers. It is also the industry's first MLC PCIe solution available in a 2.5-inch form factor. The 2.5-inch form factor is growing in popularity among IT administrators because of its ease of serviceability and scalability; it allows drive access from the front of the server, which eliminates the need to power down the server for drive service. This hot-swap capability dramatically decreases server downtime and maintenance costs.

The drive will be available in 350GB, 700GB and 1.4TB capacities[i]. Micron is currently sampling the P420m with production

expected to begin in June 2013. For additional information on the key features of the P420m, visit:
http://www.micron.com/products/solid-state-storage/enterprise-pcie-ssd/p420m-ssd

A video overview of our PCIe SSD's potential in a virtualized desktop infrastructure can be viewed online:
http://www.youtube.com/watch?v=bc6zNmkPvFI&feature=youtu.be

Follow us online! Take part in Micron's social conversations where we're talking all things storage and memory:

- Blog: www.micron.com/about/blogs
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[i]1.4TB capacity is only available in HHHL form factor

About Micron

Micron Technology, Inc., is one of the world's leading providers of advanced semiconductor solutions. Through its worldwide operations, Micron manufactures and markets a full range of DRAM, NAND and NOR flash memory, as well as other innovative memory technologies, packaging solutions and semiconductor systems for use in leading-edge computing, consumer, networking, embedded and mobile products. Micron's common stock is traded on the NASDAQ under the MU symbol. To learn more about Micron Technology, Inc., visit www.micron.com.

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