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Marvell Introduces New Xelerated Network Processors and Traffic Management Solutions for the Mobile Internet

Highly efficient, most integrated fourth-generation products enabling the rapid deployment and scale-out of new revenue-generating services for converged wireless and wireline networks

SANTA CLARA, Calif., Oct. 15, 2013 /PRNewswire/ -- Marvell (NASDAQ: MRVL) today announced the availability of a new generation of Xelerated®™ AX and HX families of network processor (NPU) and traffic management solutions optimized specifically to enable a new class of efficient, flexible and scalable network infrastructure equipment used to facilitate the explosive growth of the mobile Internet. Such equipment includes carrier Ethernet access, metropolitan aggregation switches, routers, packet-optical transport, backhaul and cloud-computing platforms.

(Logo: https://photos.prnewswire.com/prnh/20100719/SF36559LOGO-b)

The inevitable support for IPv6 scaling fueled by new services for mobile video, gaming, various real-time applications and the emergence of the "Internet of Everything" paradigm, are imposing complex bandwidth management challenges, forcing significant investments and upgrades needed for the mobile backhaul infrastructure. Service providers are demanding smarter, more elastic networks to accelerate deployment, provisioning and management of these new services to maximize in-service operation and revenue generation.

The fourth-generation Xelerated product line offered in 28nm process technology raises the bar in maximizing power efficiency for programmable packet processing and traffic management per watt. The new AX and HX families of NPUs are designed to enable service providers to rapidly introduce and scale out new services and deployment models while maintaining reliable user experience and lowest total cost of ownership.

All Marvell NPUs are based on the company's unique pipelined, programmable "Wirespeed by Design" dataflow architecture, guaranteeing a number of classifications and operations under all conditions, packet sizes, and services. This allows for significant efficiency in software development, utilizing fewest resources and enabling faster time to market. Enhanced mobile analytics and service monetization comes with ease through the exceptional level of integrated tables, meters, counters, forwarding engines and a carrier-grade traffic manager. Combined with fourth-generation feature enhancements and additions, the new Xelerated AX and HX portfolio delivers the broadest, most scalable, programmable network processor solutions addressing end-to-end, from the access network to the core network.

"Service providers are transforming their networks to a unified, converged wireless and wireline infrastructure in order to meet the consumer's appetite for the always on, always connected lifestyle," said Ramesh Sivakolundu, vice president for the Connectivity, Servers and Infrastructure Business Unit (CSIBU) at Marvell Semiconductor, Inc. "Our vision for efficiency is to enable the greatest service density and the fastest service velocity with the fewest number of disparate networking equipment. We believe the new Xelerated family of solutions delivers the perfect marriage of programmability and scalability into solutions for our customers as we uniquely position ourselves to a new generation of software defined storage, networking, mobile and compute platforms being designed today."

Key Product Highlights include:

- Up to 400Gbps wire-speed programmable packet processing
- Efficient programming model for simplified software development
- Up to 480Gbps total interfaces with multiple 100Gbps support
- Carrier-grade, hierarchical Quality of Service traffic management
- Service-oriented integration of tables, meters, counters and engines
- Cost-effective service scaling with commodity DDR3 DRAM interfaces
- Integrated OA&M with high precision timing and synchronous Ethernet
- Low power, highly integrated 28nm process technology
- Industrial temperature range for outdoor applications

The new Xelerated AX and HX families of NPUs will sample to lead customers in December 2013. Interested parties can contact their local Marvell representative for further details. Marvell will discuss the new Xelerated AX and HX NPUs and present on "Hyper-Efficient Processing for the New Mobile Internet" at the Linley Tech Processor Conference, Santa Clara, Calif., Oct. 16-17, 2013.

About Marvell
Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions enabling the digital connected lifestyle. From mobile communications to storage, cloud infrastructure, digital entertainment and in-home content delivery, Marvell's diverse product portfolio aligns complete platform designs with industry-leading performance, security, reliability and efficiency. At the core of the world's most powerful consumer, network and enterprise systems, Marvell empowers partners and their customers to always stand at the forefront of innovation, performance and mass appeal. By providing people around the world with mobility and ease of access to services adding value to their social, private and work lives, Marvell is committed to enhancing the human experience.

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