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Marvell Introduces ARMADA-385 Accelerated Data Path Solution

Marvell's Linux-compatible, firmware-based data path acceleration is transparent for customer software implementation and operates at extremely low utilization to enable more headroom for applications and services

SANTA CLARA, Calif., Oct. 21, 2015 /PRNewswire/ -- Marvell (NASDAQ:MRVL) — a worldwide leader in providing complete silicon solutions from storage to Internet of Things (IoT), cloud infrastructure, digital entertainment, in-home content delivery and Kinoma® software enabling the "Smart Life and Smart Lifestyle" — today introduced its industry leading high-performance, power-efficient Accelerated Data Path (ADP) solution based on its ARMADA®-385 system-on-chip (SoC). To address the increasing amount of central processing unit (CPU) traffic from the cloud, the cost-effective ARMADA-385 ADP solution is designed to offer an improved user experience, higher throughput and greater support for service providers and routers. With 5Gbps packet acceleration, the ARMADA-385 ADP is also designed to ensure Quality of Service (QoS) for current and future bandwidth demands from wired and wireless 11ac Wave-2 routers and access points. ADP operates transparently and easily integrates with customers' Linux support package; moreover, Linux extensions and security updates are seamlessly supported. Marvell's patented technology allows automatic and efficient learning of the ongoing network traffic without additional installations or software, which differentiates the ARMADA-385 ADP from competing solutions in the wired and wireless space.

"We developed the ARMADA-385 ADP with the specific goal of providing one of the most flexible solutions for our cloud infrastructure and service provider customers. ADP leverages existing Marvell homegrown Linux-based software to provide a transparent customer software implementation," said Michael Zimmerman, Vice President and General Manager of Connectivity, Storage and Infrastructure at Marvell. "As more and more traffic-intensive services migrate to the cloud, optimizing network traffic is critical. ARMADA-385 is a proven SoC solution supporting dual core at 2GHz with multiple hardware offload engines accessed by the ADP solution, making it a natural fit to address the growing market requirements of connected IoT solutions."

The ADP is feature-rich and optimized for Marvell's Wi-Fi, switch and PHY solutions. It offers L2 bridging, Internet protocol version (IPv) 4 and 6 forwarding, Network Address Translation (NAT), 802.1Q virtual LAN, Point-to-Point Protocol over Ethernet (PPPoE) tunnel support, QoS and per-flow statistics and aging, Firewall and IPSec. It services 11ac Wi-Fi routers and access point/extender solutions, and small office/home office (SOHO) security appliances, and fully supports Marvell 1GE and 2.5 GE PHYs.

The ARMADA-385 chip is part of Marvell's ARMADA 38x family of proven embedded processors that is shipping in high volumes on several consumer, service provider, cloud

and enterprise platforms. The Marvell ARMADA 38x family brings a new level of scalability, integration and efficiency based on dual-core ARM®v7-A at 2GHz to innovative home and enterprise products. It is designed for high-volume products such as Network Attached Storage (NAS), Wi-Fi Access Point (WAP), Surveillance Video Recorders (DVR/ NVR /Hybrid) and high-performance networking products such as control planes and line cards.

"The ARM ecosystem has strong expertise in data path solutions, and is applying this expertise to meet the rapidly evolving demands of the networking and cloud infrastructure markets," said Charlene Marini, Vice President, Segment Marketing, ARM. "Combining the ARMv7-A architecture with ADP technology, the Marvell ARMADA-385 enables a highly-scalable solution for sustained, high-efficiency throughput and dynamic application deployment for home and enterprise markets."

Additional key product features in the ARMADA-385 ADP include:

- Up to 64K concurrent IPv4 flows
- Full 2.5Gbps wire-speed IPv4 routing with 64B packets
- Advanced QoS and congestion control
- Wi-Fi data plane acceleration for Marvell Avastar devices
- IPv4 and IPv6 Multicast
- Support of Linux kernel 3.10 and above
- User friendly 3rd party software solution integration

Marvell is demonstrating its new ARMADA-385 ADP at the Broadband World Forum 2015 (Booth #MR12) taking place October 20-22 in London, U.K. For information on Marvell's ARMADA 38x family of embedded processors, visit http://www.marvell.com/embedded-processors/armada-38x/.

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions and Kinoma software enabling the "Smart Life and Smart Lifestyle." From storage to Internet of Things, 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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