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Marvell Introduces the Cost-Effective, High-Performance ARMADA 8040 Networking Community Board for OpenDataPlane, OpenFastPath and ARM NFV Ecosystems

Marvell's ARMADA 8040 is the first in an upcoming series of multi-core ARM® processors designed to deploy sophisticated applications for NFV

SANTA CLARA, Calif., and BERLIN, June 21, 2016 /PRNewswire/ -- Marvell (NASDAQ:MRVL), a world leader in storage, cloud infrastructure, Internet of Things (IoT), connectivity and multimedia semiconductor solutions, today announced it has collaborated with ARM (LSE: ARM, NASDAQ:ARMH) to introduce Marvell's cost-effective and high-performance ARMADA® 8040 networking community board, a widely available software development platform. Targeting OpenDataPlane (ODP), OpenFastPath (OFP) and ARM network functions virtualization (NFV) ecosystem communities, the ARMADA 8040 is based on a quad-core ARM Cortex®-A72 processor and includes full CPU and I/O virtualization, an advanced networking packet processor and rich state-of-the-art connectivity. Collaboration with the software ecosystem will deliver an open source ODP platform for middleware and applications on the community board. Additionally, Marvell and ARM have partnered to offer university developer students access to ARMADA 8040 platforms.

The ARMADA 8040 is a scalable, virtual System-on-Chip (Marvell vSoC™) that supports a wide range of IP appliances, secured routers, unified control and data plane applications, NFV applications, virtual CPE, enterprise applications and data center applications. The cost-effective, hyper-scale vSoC also delivers a high level of integration and efficiency, as well as leading performance and power.

"We're excited to introduce the ARMADA 8040 networking community board as the first product in our upcoming high-performance multi-core series," said Michael Zimmerman, vice president and general manager, Connectivity, Storage and Infrastructure (CSI) Business Unit at Marvell Semiconductor, Inc. "We are happy to extend our collaboration with ARM to enable the ARMADA 8040 networking community board and look forward to launching our 8, 16 and 32 cores during the first quarter of 2017."

"Ongoing transitions in network infrastructure to software-defined, virtualized network functions (VNFs) are driving developer needs for cost-optimized hardware platforms coupled with scalable, open source-based software," said Charlene Marini, vice president, segment marketing, ARM. "The open availability of the cost-optimized ARMADA 8040 combined with the ODP platform further accelerates networking developer communities, enabling the rapid optimization and validation of VNF applications on the ARM architecture."

As the first-of-its-kind networking community board, the ARMADA 8040 leverages Marvell's Modular Chip (MoChi™) technology interface to enable driver-transparent expansion beyond the standard device offering, and exposes 10GbE, 2.5GbE, 1GbE , PCIe3.0, USB3.0, SATA3.0 and SD3.0 interfaces.

Marvell's software offering for the ARMADA 8040 networking community board includes a fully open source ODP implementation, in addition to U-Boot, UEFI, Linux® LTS kernel 4.4.x, Yocto 2.1, netmap and OFP. It will also support mainline Linux kernel, mainline U-Boot and mainline UEFI EDK2.

Features of Marvell's ARMADA 8040 hyper-scale vSoC include:

- Quad-core ARM Cortex-A72 at 2.0GHz
- 1MB shared L2 cache; 1MB exclusive L3 cache
- Full ARMv8-A CPU virtualization and I/O virtualization
- High throughput low latency coherent memory subsystem
- Networking packet processor with 2x10GbE + 4x2.5GbE connectivity
- Scale to multi-port of 1GbE and 10GbE
- SuitB compatible, 10Gbp/s throughout security engine, IPSEC and SSL protocols offload
- DDR3/3L/4 32b/64b+ECC extension
- SATA3.0, USB3.0, PCIe3.0

Marvell's ARMADA 8040 networking community board is available for pre-orders; for more information please visit http://www.marvell.com/embedded-processors/armada-80xx/.

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions. From storage to cloud infrastructure, Internet of Things (IoT), connectivity and multimedia, 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, personal and work lives, Marvell is committed to enhancing the human experience.

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