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Marvell Showcases Comprehensive Suite of Gigabit-Ready Access Platforms for Fiber, Phoneline and Coaxial Cable Networks

Marvell delivers innovative wireline solutions including the first reverse-powered gigabit-class FTTdp reference platform, a new 802.11ac-ready residential gateway and an MDU switch for delivering gigabit over coaxial cables

SANTA CLARA, Calif., Oct. 21, 2014 /PRNewswire/ -- Marvell (Nasdaq: MRVL), a worldwide leader in integrated silicon solutions, today announced a comprehensive suite of gigabit-ready access platforms for fiber, phoneline and coaxial cable networks, enabling service providers to address the needs of subscribers who demand gigabit-class broadband services. Marvell will be demonstrating its innovative suite of wireline solutions for the broadband access market including the first reverse-powered gigabit-class FTTdp reference platform, a new 802.11ac-ready residential gateway and an MDU switch for delivering gigabit over coaxial cables further delivering the "Smart Life, Smart Lifestyle," for global subscribers at Broadband World Forum 2014, being held Tuesday, Oct 21-Thursday, Oct 23 in Amsterdam, Netherlands.

"Service providers around the world have a pressing need to upgrade their networks to address the demands of a new generation of gigabit services. At Marvell, we're very proud of our ability to meet their needs with truly innovative solutions built around standards-based networking technologies," said Philip Poulidis, Vice President and General Manager of the IoT and Mobile Business Units at Marvell. "Marvell's complete portfolio of broadband solutions, including PON, G.now™, 10 GbE switches and 802.11ac Wi-Fi, provide end-to-end solutions for system vendors and facilitate seamless integration with third party partner solutions."

Marvell at Broadband World Forum

Marvell's latest industry-leading solutions for the broadband access market will be showcased at Broadband World Forum 2014, being held Oct. 21 – 23, 2014, at the RAI in Amsterdam, Netherlands. To see demonstrations and learn more, show attendees and media can visit the Marvell booth, located in Hall 11, Stand B60.

Industry's first reverse-powered FTTdp reference platform (Kraken)

Marvell announces the G.now™-based "Kraken" platform which provides gigabit data rates over standard phone wires, supporting EPON, GPON and Active Ethernet optical backhaul in collaboration with Microsemi Corporation (NASDAQ: MSCC). The Kraken reference

platform integrates Microsemi's Reverse Power Feeding (RPF) technology, allowing service providers to remotely power the FTTdp Distribution Point (DP) equipment from the Customer Premises Equipment (CPE) location over a distance of up to 250 meters. RPF is a key technology required by service providers in order to minimize the costs of deploying the next wave of gigabit access networks, by removing the need to install new power-delivery infrastructure for network equipment. The Kraken reference platform integrates Marvell's Avanta-LP 88F6610 PON SoC, Marvell's 88LX3142/88LX2718 G.hn chipset and Microsemi's PD81001 RPF PSE and PD70101 RPF PD Chips. The Kraken reference platform, including schematics and board layout, is available now for global OEMs and ODMs.

Modular MDU switch for delivering gigabit broadband services over existing wireline infrastructure

Marvell and ReadyLinks, a leading supplier of broadband integration and communication solutions, will demonstrate a new modular system that combines a high-performance Prestera® Gigabit Switch with Marvell's award-winning G.hn transceivers to deliver gigabit-class broadband services over existing building infrastructure, including coaxial cables and phone-lines. ReadyLinks' IPC-1840 solution supports both coaxial-type and phoneline-type line-cards, allowing service providers to gradually add 4-port line cards as the number of subscribers increases. Each coaxial port supports up to eight users sharing the same coaxial cable segment. The solution is available today.

802.11ac-ready VDSL2 residential gateway platform

Marvell partners with Metanoia, a leading provider of semiconductor products for the wireline broadband market, to deliver a new Residential Gateway platform that combines Marvell's 88F6660 Avanta®-LP System-on-Chip (SoC) with Metanoia's MT-V2311 300 Mbit/s VDSL2 PHY to deliver a flexible, scalable and cost effective solution to the broadband service provider market. Marvell's 88F6660 Avanta-LP SoC includes a flexible Universal PON MAC, a dual-core Cortex A9 ARM CPU at 1 GHz, an integrated 6-port Gigabit Ethernet switch, a programmable packet processor capable of wire-speed gigabit routing, two PCIe interfaces for Wi-Fi connectivity, USB3 and SATA for high-speed storage management and multiple voice ports. Avanta-LP is designed for seamless integration with Marvell's advanced Avastar® 802.11ac Wi-Fi transceivers - with options for 4x4, 3x3 and 2x2 MIMO radios, and also with other home networking options such as G.hn and ZigBee. Metanoia's VDSL2 solution offers outstanding performance while meeting key operators' requirements, such as compliance with the latest ITU-T VDSL2 recommendations, including "vectoring-friendly" operation.

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 mobile communications to storage, Internet of Things (IoT), 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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