

Marvell Sets New Performance Record With Its G.Hn Wave-2 Networking Technology Based On Marvell's Revolutionary MoChi Architecture

Marvell's MoChi-enabled chipset to implement the latest version of the ITU-T G.hn standard, doubling channel bandwidth up to 200 MHz and delivering 2 Gbps data rate for carrier and home networking applications

SANTA CLARA, Calif., Oct. 27, 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 announced its new portfolio of G.hn Wave-2 transceivers, the 88LX5153 baseband processor based on Marvell's revolutionary [MoChi™ architecture](#), and the companion 88LX2730 analog front end chip. The chipset is capable of delivering data rates up to 2 Gigabits per second (Gbps) for carrier and home networking applications, can operate over any wired medium (coaxial cable, power lines, phone lines), and is specially optimized to provide a reliable backhaul for 802.11ac Wave-2 Wi-Fi access points and extenders. The 88LX5153 baseband processor and the companion 88LX2730 analog front end chip implement the latest version of the ITU-T G.hn standard, with support for the new 200MHz coax channel bandwidth, while simultaneously achieving lower power consumption and smaller size than products currently available in the market.

System vendors can integrate the MoChi-enabled 88LX5153 processor with other MoChi-enabled application processors to build a virtual System-on-Chip (Marvell VSoC™) that enables lower system cost, simpler board design and faster time-to-market. By leveraging MoChi capabilities, system vendors will also be able to add new virtual interfaces such as PCIe or USB3 to 88LX5153-based systems. Marvell's G.hn Wave-2 products are designed for seamless integration with Marvell's existing portfolio of products for the carrier and consumer electronics industries, including Avanta® PON transceivers, ARMADA SoCs, Avastar® Wi-Fi 802.11ac Wave-2 radios, Alaska® Ethernet PHYs and Prestera® and Link Street® SOHO Ethernet switches.

"Our G.hn Wave-2 offering is the result of Marvell's commitment to help broadband service providers deliver gigabit-class services to their subscribers using in-premises wiring. These products combine the fastest data rates in the industry with the flexibility provided by our MoChi architecture to build custom virtual SoCs that exactly meet customer needs at very competitive price points," said Philip Poulidis, Vice President and General Manager, Wireless and Internet of Things Business Units at Marvell.

Marvell's G.hn Wave-2 chipset enables system vendors to build a new generation of solutions for wired IPTV delivery and 802.11ac Wave-2 Wi-Fi extenders that will double the throughput and increase the range of existing products. Marvell's G.hn solution also provides mechanisms for seamless coexistence with networking products based on legacy MoCA, HomePNA or HomePlug specifications. Marvell's G.hn chipsets guarantee QoS for carrier-grade UHD (4K) and HD (2K) video delivery, and are optimized for multicast management and automatic elimination of interference from neighboring home networks.

The 88LX5153 and 88LX2730 chipsets enable system vendors to develop 100% interoperable solutions while providing flexibility to adapt to different system requirements:

- Compliant with ITU-T G.9960/61/62/63/64 (including 200 MHz coax and 100 MHz MIMO powerline band plans)
- Compliant with ITU-T G.9979 and IEEE 1905.1a
- Compliant with Broadband Forum TR-069
- Compliant with IEEE 802.1 and IEEE 802.3
- Support for two simultaneous Gigabit Ethernet interfaces (RGMII and SGMII)
- Support for Marvell MoChi interface
- SDK available for vendors that need to customize firmware operation
- Fully integrated memory, eliminating the need for external RAM
- Fully interoperable with previous generation of 1 Gbps G.hn products
- Available in both Commercial and Industrial grade

Marvell's G.hn Wave-2 chipsets will start sampling to customers in Q1 2016. Networking products based on Marvell's G.hn Wave-2 chipsets are expected to reach the market during the second half of 2016. To learn more, please visit <http://www.marvell.com/ghn/>.

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 (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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