February 22, 2016

Marvell Extends Leadership in Enabling Ultra-Broadband Access Networks with the Launch of VectorBoost Technology for G.now Platforms

Marvell's G.hn powered G.now platforms for multi-line MDU topologies unveil cloud-based solution for Elastic Capacity Provisioning to deliver faster than gigabit data rates

SANTA CLARA, Calif., and BARCELONA, Spain, Feb. 22, 2016 /PRNewswire/ -- Marvell (NASDAQ:MRVL), a world leader in storage, cloud infrastructure, Internet of Things (IoT), connectivity and multimedia semiconductor solutions, today unveiled its new cloud-based VectorBoost™ technology to complement its G.now™ platforms, offering Elastic Capacity Provisioning, increased peak capacity and virtualization of the Broadband Access Network. The new technology currently is available to Marvell's global customers.

G.now platforms are complete Broadband Access Systems based on ITU-T standard compliant Marvell's G.hn silicon. The platforms extend the ultra-broadband access from the fiber cabinet to users' homes, by taking advantage of the existing copper wiring infrastructure (Twisted Pair or Coaxial Cable) for the last mile to offer significant end-to-end cost savings to operators around the world. Using advanced algorithm for crosswalk mitigation, Marvell's ultra-broadband G.now platforms are designed for multiple telephone line MDU topologies.

The new VectorBoost technology improves the throughput of G.now lines by allocating network resources in real time according to the current needs of traffic, overcoming the throughput limit imposed by the lines' crosstalk and providing the users with much higher peak capacity just when they need it. The VectorBoost Compute Engine (VBCE) can run locally inside the GAM (multi-port G.hn Access Multiplexer) or in the cloud, leveraging additional computing power and ensuring scalability for high density deployments.

"With G.now platforms, copper wires transfer all the capacity of optical backbones directly to each home enabling much faster speeds. Copper is no longer a bottleneck for performance as is the case with legacy DSL," said Philip Poulidis, Vice President and General Manager, Internet of Things, Automotive and Multimedia Business Units at Marvell Semiconductor, Inc. "G.now is able to achieve significantly higher peak performance than any other copper-based broadband access technology, without the added cost, complexity and power of non-cloud-based solutions."

"KT has selected Marvell G.now to be the pioneer in enabling its GIGAwire technology," said Dr. Dongmyun Lee, Executive Vice President at KT's Institute of Convergence Technology. "Powered by G.hn silicon, G.now platforms have ensured a multivendor interoperable

environment for KT deployments and now they raise the quality of our service to utmost values by providing increased Peak Capacity up to 1.5 Gbps thanks to the VectorBoost feature. VectorBoost automatically adjusts parameters of each line to match its instantaneous capacity to the traffic demands of each KT service user."

KT Corporation, the No. 1 wireline telco in Korea by market share with 20 million telephony subscribers, selected Marvell's G.now technology in 2014 to enhance broadband access in multi-dwelling unit buildings over KT's existing copper infrastructure. With over two years of commercial deployments in Korea, G.now technology has proven to be easier to deploy and offers superior performance with substantial CAPEX savings when compared to traditional FTTH alternatives.

Key Features of Marvell's VectorBoost Technology to complement its G.now Platforms Include:

Elastic Capacity Provisioning:

- Instantaneous Capacity adapts to real-time traffic usage
- Innovative tracking of channel parameters (HLOG, XLOG and QLN) enables real-time crosstalk management
- Discontinuous Operation reduces power consumption

Increased Peak Capacity:

- Crosstalk elimination increases Peak Capacity up to 1.5 Gbps
- Upstream capacity dynamically increased when needed

Virtualization of the Broadband Access Network:

- Supports Cloud-based Algorithms for Elastic Capacity Provisioning
- Enables instantaneous update of traffic management policies
- GAMs hardware remains simple and fit for RPF (Reversed Power Feeding)

Marvell's G.now technology with VectorBoost will be showcased at Mobile World Congress (MWC), Feb. 22-25, 2016, at Fira Gran Via Barcelona, CC8 Executive Meeting Room 8.23 in the Hall 8.1.

KT's GIGAWire Broadband Live Service will be showcased using Marvell's VectorBoost technology at Mobile World Congress in stand 3A11 and stand 3A5MR in Hall 3 in Barcelona City.

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.

Marvell, Kinoma, G.now and VectorBoost are registered trademarks of Marvell and/or its affiliates. Other names and brands may be claimed as the property of others. For more information, please visit www.Marvell.com.

For Further Information Contact:
Marvell Media Relations

Sue Kim
Director, Corporate Communications & PR
408.222.1942
suekim@marvell.com

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

To view the original version on PR Newswire, visit:http://www.prnewswire.com/news-releases/marvell-extends-leadership-in-enabling-ultra-broadband-access-networks-with-the-launch-of-vectorboost-technology-for-gnow-platforms-300223557.html

SOURCE Marvell