

KT Corporation Deploys Marvell's Game Changing G.Now Technology For Fiber-To-The-Home (FTTH) Class Gigabit Broadband Services

Marvell partners with Ubiquoss in providing unprecedented access over existing copper infrastructure for Korea's largest broadband internet service provider

BARCELONA, Spain and SANTA CLARA, Calif., Feb. 25, 2014 /PRNewswire/ -- Marvell® (Nasdaq: MRVL), a worldwide leader in integrated silicon solutions, today announced that KT Corporation (KT), formerly known as Korea Telecom, the largest broadband internet service provider in Korea with 8 million broadband internet subscribers and 4 million IPTV subscribers, [deploys the game changing Marvell G.now technology](#) through its equipment manufacturer partner Ubiquoss. KT Corporation and Ubiquoss have selected G.now™ to enhance broadband access in multi-dwelling unit (MDU) buildings and enable FTTH class Gigabit broadband services for the Connected Home over KT's existing copper infrastructure. KT and Ubiquoss are the newest to join a growing list of service providers, ODM and OEM partners implementing Marvell's G.now transceiver in their latest digital home and access products, accelerating global adoption and enlarging the scope of ITU-T G.hn technology.

(Logo: https://investor.marvell.com/image/Marvell_logo.jpg)

"At Marvell we are very proud of our ingenuity and capability in delivering high performance and cost effective solutions to empower the global industry. This game-changing G.now technology is our latest contribution in enabling major service providers like KT Corporation to provide superior broadband service with existing infrastructure," said Weili Dai, President and Co-Founder of Marvell. "I would like to thank the hard working teams of Marvell, Ubiquoss, and KT for their close collaboration in making the first G.now deployment possible. It is our passion and commitment to continue bringing great technologies to better the lives of global consumers."

"After successful field trials during the second half of 2013 with Ubiquoss equipment based on Marvell G.now technology, we have determined the technology has an impressive performance, is easier to deploy and provides substantial CAPEX savings when compared to traditional FTTH alternatives. We expect to extend the value-added service soon after the field's evaluation to the major regions where demand is high for such advanced services," said Dong Myeon Lee, CTO and Executive Vice President of Institute of Convergence Technology at KT Corporation.

"Ubiquoss is dedicated to deliver state-of-the-art networking solutions for the broadband access market," said Yong Ho Choi, EVP of Marketing at Ubiquoss. "By designing Marvell's G.now silicon into our Gigabit Phoneline systems, we are giving a new life to the existing copper access infrastructure. G.now technology enables us to provision both symmetric and asymmetric access services as needed, solving one of the key problems faced by fixed-line service providers in the past. This technology is field tested and available today from Ubiquoss."

G.now enables fast and powerful connectivity, at data rates up to 1 Gbit/s over existing wiring, including electrical wires, coaxial cables, twisted pair and plastic optical fiber. G.now is G.hn technology applied for wireline broadband access networks, as an upgrade to VDSL2. Marvell G.now provides a much higher data rate (over 500Mbps over copper) than legacy VDSL systems (100 Mbps), TDD architecture with configurable uplink/downlink ratio, advanced FEC, automatic retransmission, NDIM technology for interference mitigation and automatic mitigation of Near-End Crosstalk (NEXT).

Ubiquoss's G.hn powered and industry's first G.now products enable KT to deliver FTTH-class service to MDU apartments while avoiding the costs of replacing copper wires with optical fiber. These increased data rates ensure the access network is future-proof and ready to provide new services such as multi-stream 4K IPTV, cloud-based storage or 802.11ac wireless hotspots. With 18M national subscribers to wired broadband services (including xDSL, LAN and FTTH), KT has the world's highest broadband penetration rate (97%) and is leading the broadband services revolution by continuously adopting next generation technologies for its population. Early 2013, the Korean government has announced its commitment to enable Gigabit broadband speeds in most parts of the country by 2017 in order to meet an explosive growth in data traffic. As the #1 wireline telco in Korea in market share, with 18M telephony subscribers (62%), 8M broadband subscribers (44%) and 4.7M IPTV subscribers (26%), KT has selected Marvell G.now to be the pioneer in enabling the world's first Gigabit broadband services for its subscribers today.

Ubiquoss is a leading provider of IP network equipment for broadband access over phone lines and UTP cables in MDU buildings, also #1 VDSL system provider in Korea. Its latest G.hn products include the 24-port G.hn Access Multiplexer (GAM) U4124B and G.hn Network Terminal (GNT) C301G, both using Marvell® HomeGrid Forum-certified 88LX3142 G.hn digital baseband processor and the 88LX2718 G.hn analog front end. In a fully loaded 24-port configuration, the U4124B can provide a total application-layer capacity of 9.6 Gbit/s.

Ubiquoss' GAM U4124B provides the following features:

- 24 Subscriber Phoneline ports (G.hn)
- Up to 500 Mbps of application rate per port
- Up to 9.6 Gbit/s total capacity
- Automatic management of Near-End Crosstalk (NEXT) and Far-End Crosstalk (FEXT)
- Radio Band Notching function
- Frequency band filtering
- Built-in low attenuation voice splitter
- High Performance Layer 2 Ethernet switching
- STP, PVSTP, RSTP
- Link aggregation, LACP
- Port based VLAN and Tagged VLAN (802.1Q)
- IGMP Snooping/IGMP Proxy
- Powerful Layer 1~4 packet filtering
- NetBIOS/NetBEUI/NBT, DHCP packet filtering
- MAC address limitation per port
- Broadcast Storm Control
- 802.1p, DSCP marking/remarking
- SPQ, WRR, WFQ scheduling
- Easy Management (CLI, Telnet, SNMPv1/v2)
- System temperature/Fan status monitoring
- Various uplink interface options: 1G(TX/SFP), 10G(SFP+), EPON/10GE PON, GPON
- Full front access structure for easy installation and Maintenance

Marvell will showcase its G.now technology powered by its award-winning G.hn chipset together with its partners during Mobile World Congress (MWC), February 24-27, 2014, at Fira Gran Via Barcelona, CC8 Executive Meeting Room 8.13 in the Hall 8.1. KT will showcase the world's first Gigabit Broadband Service live demonstration together with its equipment supplier Ubiquoss at Stand 3A11 in Hall 3.

About Ubiquoss

Ubiquoss is a global provider of IP convergence networking equipments and solutions, providing Active Network Switches covering access, aggregation, edge, and core network layer, also providing Passive Network Switches where DPoE, EPON, GPON, and 10G EPON OLTs, ONUs, and MDUs are lined up. Ubiquoss is adding Mobile Backhaul Solutions onto its product portfolio. Ubiquoss also provides leading edge last mile solutions including VDSL2 and G.hn to operators of all sizes globally. Ubiquoss helps Telcos, ISPs and MSOs construct future proof networks with the right solution at the right time in the right direction. For more information, please visit www.ubiquoss.com

About KT Corporation (KT)

KT is the largest provider of integrated telecommunications services in Korea in terms of revenue. It focuses on fixed-line telephony, broadband internet access, data communication, mobile telecommunication, IPTV, leased-line and satellite, as well as system and network integration services. For more information, please visit www.KT.com.

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, 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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