

## Marvell Powers Up Billion's Powerline Products With Leading-Edge G.hn-Compliant Chipset

**G.hn chipset offers high-performance, streaming multimedia for the ultimate connected lifestyle**

TAIPEI, Taiwan, June 4, 2012 /PRNewswire/ -- Computex -- Marvell (Nasdaq: MRVL) today announced its ITU-T G.hn-compliant transceiver chipset will power up Billion's new PLC product series, offering a high level of performance and flexibility for streaming multimedia applications in today's connected home. Marvell and Billion are showcasing the technology in Room 101C at Computex 2012, taking place June 5-9 at the Taipei International Convention Center.

(Logo: [https://investor.marvell.com/image/Marvell\\_logo.jpg](https://investor.marvell.com/image/Marvell_logo.jpg))

"Billion has developed a loyal following for its line of Powerline adapters and is pleased to collaborate with Marvell as we roll out this important next phase," said Greg Chen, Senior Vice President of Billion. "Most of all, we are impressed with an already exceptional track record from Marvell for a relatively new technology and want to extend this innovation to our partners. Marvell understands the stakes involved in delivering a reliable and dynamic connected home experience and leverages the extent of its connected lifestyle expertise to make this happen. We look forward to building up OEM/ODM business relationship with the customers who need leading-edge G.hn solutions."

A leader on many fronts on the connected home and home networking landscape, Marvell has picked up considerable momentum with its G.hn chipset after the technology's debut in September 2011. The solution won a Best Electronic Design Award in December 2011 and a Connected Home Award in April 2012. Demonstrations at CES and the Asia Plugfest in 2012 generated even more interest around Marvell's Powerline roadmap and potential G.hn deployments.

For the new G.hn product series, Billion has implemented Marvell's entire [GE-DW360F G.hn Powerline reference design](#), which includes a G.hn-compliant MAC/PHY transceiver; the Marvell 88SE1510 Gigabit PHY; the 88LX3142 digital baseband processor; the 88LX2718 analog front end; full ITU-T G.hn protocol stack; and a powerful software API. Targeted for bandwidth-intensive, multi-media streaming applications, the GE-DW360F delivers performance of up to 1Gbps PHY rate – currently the fastest available in the industry.

Marvell's G.hn chipset offers a range of other benefits as well. For example, ITU-T compliance offers a multi-source ecosystem; reduced cost, complexity and time to market; and the advantage of global support across countries, regulators and vendors. It also offers complete unification of the home wireline network, including Powerline, Coax and Phoneline, to distribute more content to more screens in more rooms in the home. In all, Marvell's Powerline reference design is the ideal solution for data-rich, real-time applications such as HD IPTV, VoIP, gaming, multi-room DVR and beyond.

At a glance, the Billion G.hn product series offers:

- Support for all G.hn baseband bandplans (25-, 50- and 100 MHz)
- Coexistence with other technologies (UPA, IEEE1901)
- State-of-the-Art LDPC forward error correction (FEC)
- Remote configuration management integrated on-chip
- Remote one-step firmware upgrade
- Log file record of the adapter performance
- Enables broad customization of features
- Multiple Input/Multiple Output technique based on G.9963 to boost PLC throughput
- Optimized and robust performance in high density MDUs (NDIM)
- Secure operation (end-to-end encryption)
- Easy installation and configuration

"Marvell is excited to work with Billion on this distinctly new breed of Powerline adapters," said Dr. Gani Jusuf, vice president of product development for Marvell's Communications and Consumer Business Group. "With an already successful partnership in place from UPA or pre-G.hn deployments, it's only natural Marvell would up the ante with this next iteration of Powerline technology. The deployment is also validation for the strength of Marvell's larger body of solutions for the connected lifestyle."

### About Billion

Billion Electric Co., Ltd. (Taix: 3027, trading as Billion), was established in Taiwan in 1973. One of Asia Pacific area's leading providers of power supplies, communication equipments and Smart Grid and Smart Energy Solution Provider. Billion has in-house R&D laboratories with over 185 engineers specializing in the fields of

communications, networking, power, and energy management. The R&D teams are located at Taipei and Hsin-chu in Taiwan, Nanjing and Dong-Guang in China. They work together to meet the needs of Billion's OEM/ODM partners from across the globe. Billion now employs more than 1,630 people and has manufacturing locations in Taiwan, Malaysia, and China. All the factories are ISO9002 certified and every product is 100% tested twice to ensure the best quality and zero defects. For more information, please visit our websites at [www.billion.com](http://www.billion.com) and [www.smartgrid.com.tw](http://www.smartgrid.com.tw). For additional information, please contact Billion at [smartgrid@billion.com](mailto:smartgrid@billion.com)

### **About Marvell**

Marvell (NASDAQ: MRVL) is a world leader in the development of storage, communications and consumer silicon solutions. Marvell's diverse product portfolio includes switching, transceiver, communications controller, wireless and storage solutions that power the entire communications infrastructure, including enterprise, metro, home and storage networking. As used in this release, the term "Marvell" refers to Marvell Technology Group Ltd. and its subsidiaries. For more information, visit [Marvell.com](http://Marvell.com).

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