

## New T&W Adapters Benefit From Marvell Powerline Technology

### Groundbreaking G.hn chipset ushers in new era of multimedia performance for today's connected home

TAIPEI, Taiwan, June 4, 2012 /PRNewswire/ -- Computex -- Marvell (Nasdaq: MRVL) today announced its ITU-T G.hn-compliant transceiver chipset will power T&W's new G.hn Powerline Adapter, offering a high level of performance and flexibility that greatly accelerates today's connected lifestyle. Marvell and T&W are showcasing the modem 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))

"We are extremely pleased to partner with Marvell as we roll out our newest generation of Powerline adapters targeted squarely at the digital home," said Roger Jiang, General Manager of Application Product Business Unit of T&W. "By integrating Marvell's innovative G.hn chipset into our new G.hn Powerline Adapter, we are taking our product line to the next level and raising the bar for our entire industry. Our collaboration with Marvell is ensuring the highest level of performance in the connected home. What's more, it is helping us provide the very best solutions for bandwidth-intensive and real-time applications, including HD IPTV, VoIP, gaming, multi-room DVR, and more."

As one of the leaders in connected home and home networking technology, 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 G.hn Powerline Adapter, T&W 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 T&W G.hn Powerline Adapter 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 modem 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 thrilled that T&W has selected our G.hn chipset to drive its new line of Powerline adapters. The home networking industry is coalescing around the G.hn standard, and by embracing the technology, T&W is sending a message that the connected home is about to become more powerful and performance-oriented than ever," said Dr. Gani Jusuf, vice president of product development for Marvell's Communications and Consumer Business Group. "T&W's new G.hn Powerline Adapter will enable consumers to take advantage of groundbreaking multimedia capabilities in the home like never before. What's more, Marvell's new Powerline reference design is the perfect ambassador for our larger umbrella of offerings that support the entire connected lifestyle."

#### About T&W

Founded in 1998, Shenzhen Gongjin Electronics Co. Ltd. (Gongjin Electronics) possesses the "T&W" trademark which was registered at the State Trademark Bureau in 1991. Gongjin Electronics has set up Taicang T&W Electronics Co, Ltd. and Shanghai Gongjin Communications Technology Co. Ltd. in succession. Gongjin Electronics, engaging in professional R&D and manufacturing of R&D and manufacturing of computers, broadband and wireless telecom equipment, and network video products, is a leading provider for China's telecom enterprises and the largest manufacturer of DSL products in China. Its products have been supplied to areas from China to all over the world and widely applied to fields such as finance, education, telecom, securities and homes.

#### **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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