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Marvell Introduces First Commercially Available MacSec Enabled PHY

LinkCrypt Powered 88E1340M PHY Supports up to Four Gigabit Ethernet Ports and Line Rate Encryption and Authentication

SANTA CLARA, Calif., Nov. 10 /PRNewswire-FirstCall/ -- Marvell (Nasdaq: MRVL), a leader in storage, communications, and consumer silicon solutions, today introduced the Marvell(R) Alaska(R) 88E1340M Gigabit Ethernet (GbE) physical layer (PHY) device with LinkCrypt(TM) security technology. LinkCrypt is a foundation technology which is designed to harden the existing infrastructure and embed security into the network fabric without compromising operational scalability. The Alaska 88E1340M supports 4 ports of 1GbE with line rate packet encryption and decryption capabilities.

(Logo: http://www.newscom.com/cgi-bin/prnh/20070411/SFW034LOGO)

"Building on our extensive Ethernet expertise, Marvell's vision is to enable Ethernet as the foundation for secure, converged networks delivering voice, video and data capabilities," said Awais Nemat, vice president, Enterprise Business Unit, Communications and Consumer Business Group at Marvell. "The Alaska 88E1340M is designed to provide a low power, industry-leading solution to build standards-compliant security solutions into existing and new Ethernet infrastructure deployments."

The Alaska 88E1340M provides network equipment manufacturers with an extremely efficient solution to enable security in Gigabit Ethernet enabled networks. Integrated Quad Serial Gigabit Media Independent Interfaces (QSGMII) and SGMII interfaces are designed to provide easy system integration capabilities with reduced BOM costs. The embedded Marvell LinkCrypt security technology provides for seamless interoperability with industry-leading network access control solutions.

The Alaska 88E1340M is a 65nm device designed for low power consumption per Gigabit Ethernet port -- less than 500mW per port. In addition, it has extremely low incremental power consumption per gigabit of encrypted/decrypted traffic -- less than 75mW per GbE port. Compliance with IEEE 802.1AE standard is designed to guarantee compatibility with existing security solutions and IT management tools.

Just as 802.11i extends the 802.1X authentication model to continuously protect data for the Wireless LAN, LinkCrypt technology extends the IEEE 802.1X model to protect data for the wired Ethernet on a link by link basis. Innovative technologies such as LinkCrypt are anticipated to enable the development of a new generation of data communications products for secure enterprise, data center and Ethernet networks. Designed as a horizontal technology to scale from 10's of Mbps to 100's of Gbps performance, LinkCrypt technology can be applied across a broad portfolio of products. Compliant with the IEEE 802.1AE (Link

Layer Security) standard, LinkCrypt has demonstrated interoperability with industry leading solutions and compatibility with other third party software and hardware security solutions.

Pricing and Availability

For more information on Marvell Alaska 88E1340M or LinkCrypt technology, or other switching solutions, please contact your local Marvell sales representative or visit http://www.marvell.com/products/switching.

About Marvell

Marvell (Nasdaq: MRVL) is a leader in the development of storage, communications, and consumer silicon solutions. The company'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 terms "company" and "Marvell" refer to Marvell Technology Group Ltd. and its subsidiaries. For more information, visit http://www.marvell.com.

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