

June 1, 2015



Marvell Introduces 2.5GbE, 5GbE, 10GbE and 40GbE Enterprise Edge and SME Switching Devices and Full Turnkey Software Solution

Adds to its award-winning Prestera DX product line to drive the industry transition from 1GbE to 2.5GbE, 5GbE, 10GbE and 40GbE

Introduces the industry's leading SOHO-class 10GbE single chip with integrated GbE PHYs in the Link Street family

SANTA CLARA, Calif. and TAIPEI, Taiwan, June 1, 2015 /PRNewswire/ -- [Marvell](#) (NASDAQ: MRVL) – a worldwide leader in providing complete silicon solutions from mobile communications to storage, Internet of Things (IoT), cloud infrastructure, digital entertainment, in-home content delivery and Kinoma® software enabling the "Smart Life and Smart Lifestyle" – today announced new products within the [Prestera® DX](#) and [Link Street® SOHO](#) switching families. The Prestera DX and Link Street SOHO product families continue the company's leadership in highly integrated switching products with built-in advanced ARM-based CPUs and full turnkey networking software solution. The next-generation Prestera DX devices are optimized for high density 1-Gigabit Ethernet (GbE)/2.5-Gigabit Ethernet (2.5GbE) deployment at the enterprise edge and 10GbE/40GbE at aggregation in the small and medium-sized enterprise (SME) and business (SMB) environments; the newest Link Street device offers the industry's leading switch/PHY with 10GbE interfaces and 8 integrated GbE PHYs, enabling radically new power and size options.

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"The proliferation of new 802.11ac-enabled wireless access points and higher throughput 4G/LTE small cells is forcing an infrastructure upgrade from 1GbE to 2.5GbE over existing cable plants," said Michael Zimmerman, Vice President and General Manager, Connectivity, Storage and Infrastructure (CSI) BU, Marvell. "SME networks are also faced with upgrades to support growing 10GbE connectivity requirements, driven by a new generation of network appliances and storage systems. Marvell's newest switching devices and software solutions in the Prestera DX family, the 8212/08 and 4211/10, are continuing steps in our effort to enable more 2.5GbE/5GbE- and 10/40 GbE-centric solutions with higher performance for feature-rich and secure networking platforms."

The DX8212 and DX8208 packet processors are highly optimized solutions for 10GbE/40GbE network appliance connectivity in the SMB and SME environment. Coupled with Marvell's X3240 10GBase-T PHYs, the Prestera DX8212 and 8208 devices offer a

unique way to migrate from 1GbE Copper or Fiber to 10GbE Copper or Fiber through the use of the auto-media feature.

The DX4211 and DX4210 are optimized for enterprise edge and industrial Ethernet applications. With support for port speeds of 1GbE/2.5GbE/5GbE/10GbE/40GbE, these devices are ideally suited to build the next-generation access infrastructure. Additional support for virtual bridging and routing and congestion management features allow the devices to coexist in legacy and newer software-defined networking (SDN)/Network Function Virtualization (NFV) cloud-managed network deployments. Integrated dual-core ARM CPUs enable host offload or allow a complete networking stack for SMB, SME and enterprise environments.

"Marvell's 88E6390X is a single chip solution with integrated switch, PHY and ARM CPU that balances the need for a high-performance yet cost-effective aggregation to 2.5GbE/10GbE," continued Michael Zimmerman. "With the 88E6390X's two 2.5Gb/10Gb uplinks, the SMB owner and solutions provider can now enable system functionality previously only available on enterprise-class devices."

Designed for SMB, SME and small office/home office (SOHO) networking system applications such as standalone switches and wireless and wired gateway routers as well as industrial Ethernet applications, the 88E6390X is an extension of the Marvell Link Street SOHO switch family.

Key features of Marvell's Prestera DX8212 and DX8208:

- 12 and 8 port 10GbE switch with integrated 10Gb SerDes
 - The 10Gb Flex Link ports support speeds of 10Gbps, 2.5Gbps and 1Gbps
 - IEEE 803.2ba Backplane Ethernet support
- Variety of new tagging formats and tunneling mechanisms: VxLAN, NvGRE, EVB, SPB, Geneve and NSH
- Integrated dual core ARM CPU for mainstream control and protocols
- Compatible products in the family offer traffic management and external buffer capabilities
- IEEE 1588 1-step timing

Key features of Marvell's Prestera DX4211 and DX4210:

- Support for next-generation access port speeds
 - 48 ports of 1GbE with 4 ports of 1/2.5/10GbE uplinks and 2 ports of 40Gbps stacking for standard Enterprise and SMB/SME deployments
 - Up to 20 ports of 1/2.5GbE with 4 ports of 10GbE uplinks for a largely wireless SMB deployment
- Support for legacy and new tag formats and flow control schemes enables coexistence in SDN and cloud-centric models
- Variety of new tagging formats and tunneling mechanisms: VxLAN, NvGRE, EVB, SPB, Geneve and NSH
- Integrated dual core ARM CPU for mainstream control and protocols
- Compatible products in the family offer traffic management and external buffer capabilities
- IEEE 1588 1-step timing

Key features of Marvell's Link Street SOHO 88E6390X:

- 11-port Ethernet switch with 8 integrated Gb IEEE (802.3az) PHYs and 2 10Gb ports
 - The 10Gb ports support speeds of 10Gbps, 2.5Gbps and 1Gbps
- Integrated 200MHz microprocessor for mainstream control and protocols
- High-performance, low-latency, cut-through line rate switching fabric for time-sensitive applications
- IEEE 1588 1-step timing
- Supports the latest Audio/Video Bridging (AVB) and Time Sensitive Networking (TSN) standards

The Prestera DX8212, DX8208, DX4210, DX4211 and the Link Street 88E6390X are sampling.

Marvell will be demonstrating its switching solutions during Computex June 2–5, 2015 as part of its award-winning, diverse product portfolio advancing the delivery of cloud services throughout the ecosystem and powering today's revolutionary Smart devices.

For further information on Marvell's Prestera DX packet processors, please visit: <http://www.marvell.com/switching/prestera-dx/>, and on Marvell's SOHO Link Street switches, please visit <http://www.marvell.com/switching/link-street/>.

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, 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.

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