Marvell Delivers Market Shattering 60Gbps Ethernet Packet Processors

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Marvell®, a technology leader in the development of extreme broadband communications and storage solutions, today introduced the new Prestera®-DX250, -DX260, and –DX270 packet processors, **the industry's first 60 Gigabit per second (Gbps)** Ethernet **Switching solution**. The new Prestera-DX devices provide a highly integrated and flexible architecture that enables customer to develop world-class standalone and stackable solutions.

Marvell continues its innovative leadership by offering new features in Prestera-DX250/260/270 devices such as Distributed System Architecture (DSA), Policy Control List (PCL), SecureControl, and HyperG. Stack (HGS). Utilizing these features, customers can easily offer solutions with 10GbE uplinks, dedicated ports running at 12 Gbps for stacking, and advanced QOS using policy control, all at full wire speed.

New Features Available in the Prestera-DX250/260/270 include:

- Policy Control List (PCL) – Wire speed policy control guaranteeing IPv4/v6 Security, VLAN, and QoS ACL rules.
- SecureControl – A new and innovative approach to CPU traffic management functionality that enhances security by preventing problems, such as "Denial of Service" attacks.
- Distributed Switching Architecture (DSA) – An integrated approach enabling Fabric-less stacking.
- HyperG. Stack (HGS) – Standard XAUI interface, which can be

configured as 10GbE or tuned to 12Gbps enabling full wire rate back-to-back and stackable topologies.

“These new Prestera packet processors are revolutionary in features, flexibility and integration,” said Paul Valentine, Senior Director, Product Marketing, Marvell. “For example, it takes our nearest competitor five devices in order to achieve the same port density we offer in our single Prestera-DX260 packet processor. Customers will also benefit significantly through Marvell’s high-integration of true security, QoS and IPv6 technologies.”

Availability

The Prestera-DX250 offers 24GbE ports, while the DX260 offers 24GbE- plus two 10GbE-ports and the DX270 offers 24GbE- plus three 10GbE-ports. Marvell is also releasing three System Development Kits (SDKs) for 24- and 48-port GbE with two 10GbE port or stacking configurations. Marvell has taken this innovative approach of providing complete SDKs to accelerate its customers time-to-market. The new Prestera-DX250/260/270 GbE are sampling now to key OEM customers.

About Prestera-DX Devices

The Prestera-DX family of devices feature non-blocking performance and high integration by combining onto a single chip SerDes interfaces, Gigabit MACs, packet buffer memory, a powerful switch engine, management interfaces, and port mirroring. As a result of the high-integration, the Prestera-DX devices are sold in small, low pin count packages enabling 4-layer PCB design versus the currently available “pin-heavy” RGMII solutions. The DX devices are also designed to offer optimized load balancing across link aggregation for server connectivity and connecting desktop switches to core switches.

Source: Marvell