PRODUCT OVERVIEW

The Marvell® Prestera® CX product line provides high-density multilayer 10 Gigabit (GbE)- and 40 GbE-enabled Ethernet switches. These highly integrated, line-rate packet processors are specifically built for the new generation of high performance datacenters with converged Ethernet network. They support the latest IEEE standard for congestion management and priority flow control, as well as cut-through for low latency operations. The Prestera CX switches also provide comprehensive support for FibreChannel over Ethernet for converged storage and data networks. They can be used for service provider carrier Ethernet with built-in support for IETF VRF, IEEE 802.1ad, 802.1ag and extensive OAM.

The flexible policy control and Ethernet tunneling features enable applying network policy for virtual machines and layer 2 roaming. Sophisticated routing and tunneling features allow dual-stack coexistence for smooth and efficient migration from IPv4- to IPv6-based networks. Advanced ingress and egress traffic policers with support for metering, counting, statistics, scheduling and shaping help optimize Quality of Service (QoS) for converged data, voice and video traffic. The Prestera CX switches also support sFlow®, IPv6 and remote port analysis for network traffic monitoring and management.

BLOCK DIAGRAM

FEATURES

- High density 10GbE and 40GbE ports
- Congestion management and priority flow control

BENEFITS

- Drive higher bandwidth to the edge for next-generation optical broadband networks
  - Up to 48 ports of 10GbE with 98CX8248
  - Up to 4 ports of 40GbE uplinks with 98CX8234
- Isolation
  - Provides lossless performance for critical applications such as storage
  - Provides network congestion and improved performance for lossy traffic

Fig 1. Marvell Prestera CX 8248/8234
THE MARVELL ADVANTAGE: Marvell chipsets come with complete reference designs which include board layout designs, software, manufacturing diagnostic tools, documentation, and other items to assist customers with product evaluation and production. Marvell’s worldwide field application engineers collaborate closely with end customers to develop and deliver new leading-edge products for quick time-to-market. Marvell utilizes world-leading semiconductor foundry and packaging services to reliably deliver high-volume and low-cost total solutions.

ABOUT MARVELL: Marvell is a leader in storage, communications, and consumer silicon solutions. Marvell’s diverse product portfolio includes switching, transceiver, communications controller, processor, wireless, power management, and storage solutions that power the entire communications infrastructure, including enterprise, metro, home, storage, and digital entertainment solutions. For more information, visit our Web site at www.marvell.com.