MARVELL® Link Street® 88E6393X Switch

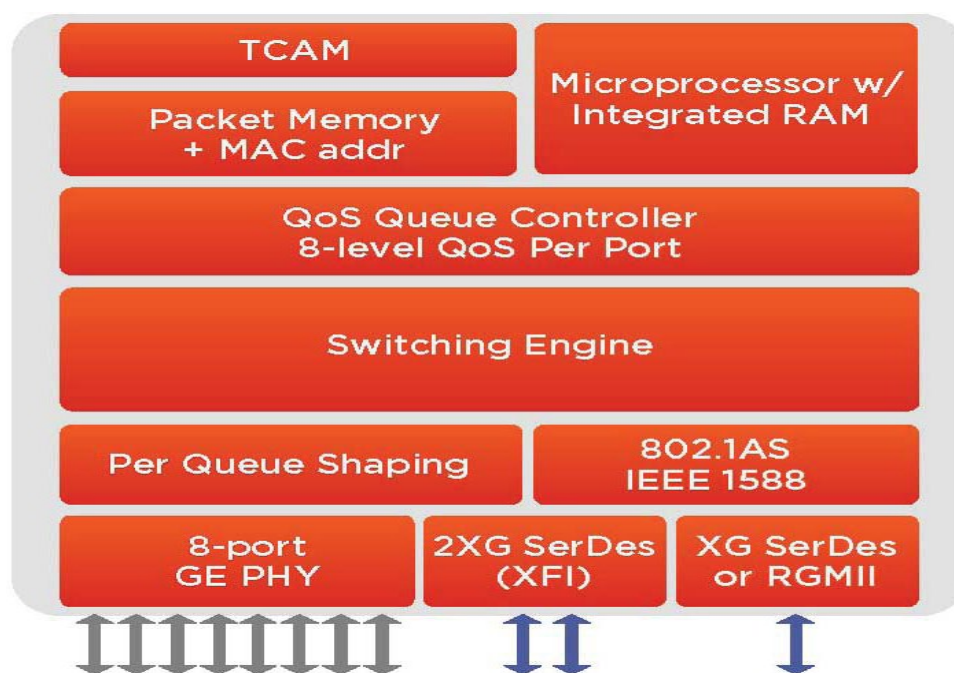11-port SOHO switch with Eight 10/100/1000Mbps PHYs and 3-10G Ports

PRODUCT OVERVIEW

The Marvell® Link Street®-88E6393X device is a single-chip, 11-Port Ethernet Switch with eight integrated 10/100/1000Mbps Ethernet transceivers and 3 high speed SerDes interfaces supporting USXGMII, 10GBASE-R, 5GBASE-R, 2500BASE-X, 1000BASE-X, SGMII.

The 88E6393X provides advanced QoS features with 8 egress queues. The high-performance switch fabric provides line rate switching on all ports simultaneously while providing advanced switch functionality. The device includes TCAM to enable flexible switch policing, including Access Control Lists (ACLs) and Policy Control Lists (PCLs). These new standards overcome the latency and bandwidth limitations of Ethernet to allow for the efficient transmission of real-time content for home, commercial, and industrial applications.

The 88E6393X also supports IEEE 802.1BR port extender protocol, which enables dramatic reduction of the complexity and cost of the Ethernet network.

BLOCK DIAGRAM

Marvell Link Street 88E6393X Switch

KEY FEATURES AND BENEFITS

FEATURES	BENEFITS
• 11-port Ethernet Switch • Eight 10/100/1000Mbps PHYs;2 XG SerDes; 1 XG SerDes or RGMII	• Provides a complete Gigabit Ethernet switching solution for SOHO and SMB 8 port switches and routers. • The 10Gbps interfaces provide non-blocking uplink to cascade to higher port count 16 and 24 port switches
TCAM for Deep Packet Inspection	• Enables intelligent switching and policing of packets by looking beyond Layer 2 packet information
L3 Routing	• Enables L3 Routing function
IEEE802.1BR Port Extender	• Enables new networking structure
Cut-through	• Reduces packet latency
IEEE 1588v2	• Enables high accuracy time synchronization
DoS Prevention	• Offers network security function by preventing DoS attack

TARGET APPLICATIONS

• SMB Switch with L3 Routing support

• 802.1BR Port Extender

• Industrial Switch

• Gateway - Port Aggregation for SoC

ABOUT MARVELL: Marvell first revolutionized the digital storage industry by moving information at speeds never thought possible. Today, that same breakthrough innovation remains at the heart of the company's storage, networking, and connectivity solutions. With leading intellectual property and deep system-level knowledge, Marvell's semiconductor solutions continue to transform the enterprise, cloud, automotive, industrial, and consumer markets. For more information, visit www.marvell.com.