

# Marvell Prestera 98EX3316

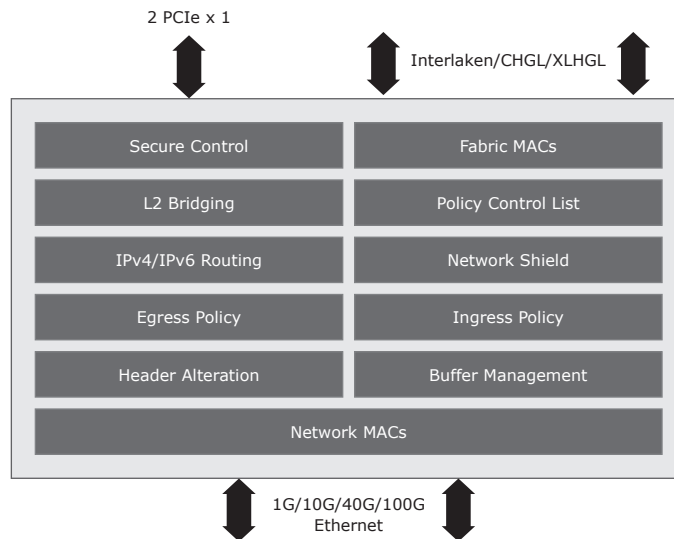
Advanced Multi-layer High-Capacity Packet Processor for Enterprise, Data Center, and Metro Ethernet



## PRODUCT OVERVIEW

The Marvell® Prestera® 98EX3316 packet processors deliver multi-layer Gigabit Ethernet (GbE), 10GbE, 40GbE, and 100GbE switching with advanced features targeted for enterprise, data center and service provider networks. This complete system-on-chip (SoC) device supports full line-rate L2 bridging, L3 IPv4, and IPv6 routing, comprehensive IP Multicast support, and L2-L4 advanced traffic classification, filtering, and prioritization. Other key features include VPWS, IP-VPN, MPLS LER/LSR, IEEE 802.1ad Provider Bridging (QinQ), Fiber Channel over Ethernet (FCoE), Priority Flow Control (PFC), Edge Virtual Bridging (VEPA/Multichannel), and Shortest Path Bridging (SPB). In addition, Prestera 98EX3316 can be used to build highly scalable platforms using the Marvell Prestera FX family or other OEM switch fabrics.

## BLOCK DIAGRAM



## KEY FEATURES AND BENEFITS

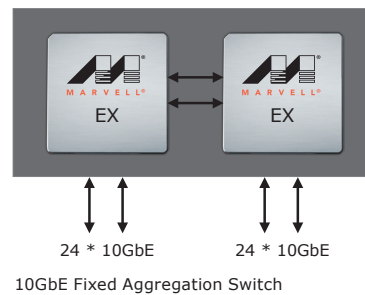
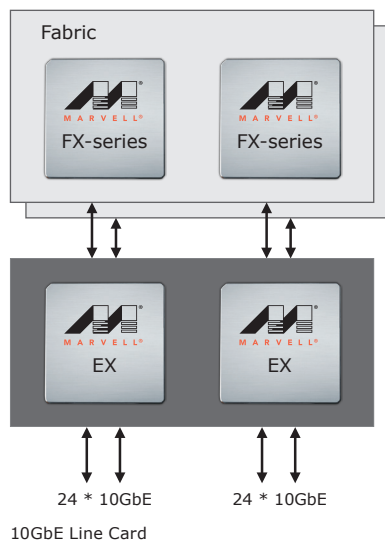
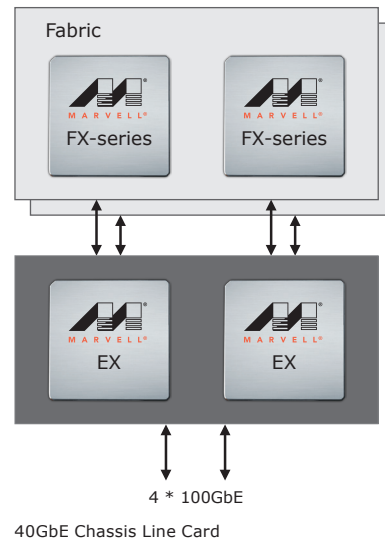
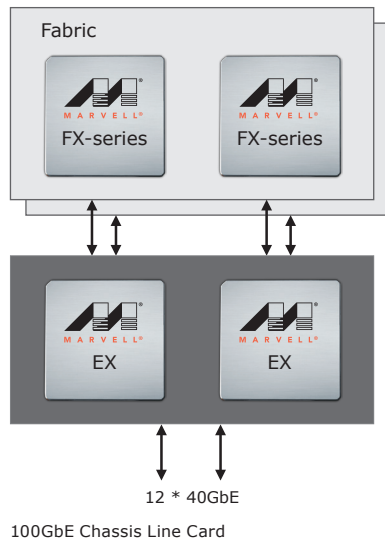
SPECIAL FEATURES	BENEFITS
<ul style="list-style-type: none"><li>• Flexible high-speed interfaces</li><li>• Expandable resources</li></ul>	<ul style="list-style-type: none"><li>• 10GE / 40GE / 100GE network connectivity<ul style="list-style-type: none"><li>– Single device for multiple line card options</li><li>– Same architecture and software for all line cards</li></ul></li><li>• Expanded key table resources with external memory<ul style="list-style-type: none"><li>– Highly scalable platforms</li><li>– High feature capacity</li></ul></li></ul>
<ul style="list-style-type: none"><li>• Flexible fabric interfaces</li><li>• Wire-speed switching and routing</li></ul>	<ul style="list-style-type: none"><li>• Single device for multiple chassis designs<ul style="list-style-type: none"><li>– Flexible deployment models</li><li>– Backwards compatibility</li></ul></li><li>• High performance packet processing<ul style="list-style-type: none"><li>– Advanced L2 bridging services</li><li>– L3 forwarding with security at line-rate performance</li></ul></li></ul>

## APPLICATIONS

The Prestera 98EX3316 packet processor is ideal for high-performance multi-layer switching line cards for high density aggregation and core chassis. Its flexible network interface supporting 10GE, 40GE, and 100GE speeds means different line cards can be built with the 98EX3316, allowing maximum leverage of software reuse across the entire system.

The highly integrated Prestera 98EX3316 is also suitable for rack-optimized fixed-configuration aggregation switching. This design offers performance and bandwidth for low-density, multi-layer aggregation of high-performance servers and workstations. Expandable resources enable high feature capacity, as well as providing wire-speed routing and switching.

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**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](http://www.marvell.com).



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Marvell\_Prestera 98EX3316-001 05/12