VSC7434

24×1-Gigabit and 2×10/12 Gbps + 2× 10 Gbps L2 Enterprise Ethernet Switch with High Performance Stacking and 416 MHz CPU

Features

- 24× 1 GbE ports with SGMII, 1000BASE-X SerDes, 100BASE-FX
- Up to 8× 2.5 GbE ports
- 4× or 2× 10 GbE XAUI ports supporting four-lane 10 Gbps XAUI or two-lane 10 Gbps VAUI
- 2× 12 Gbps stacking ports supporting four-lane 10 Gbps XAUI or two-lane 10 Gbps VAUI
- Internal shared memory buffer (8 queues per port)
- Jumbo frame support
- Strict priority and DWRR scheduler/shaper
- Integrated 416 MHz MIPS CPU
- 27 mm × 27 mm FCBGA

Layer 2 Switching and Layer 3 Forwarding

- 802.1Q VLAN switch with 32K MACs and 4K VLANs
- Push, pop, and translate ingress/egress
- Policing with storm control and MC/BC protection
- RSTP and MSTP support
- Independent and shared VLAN learning (IVL, SVL)
- Hardware and software-based learning
- TCAM-based classification and VCAP-II security
- Layer 3 unicast and multicast routing

Multicast

- Layer 2
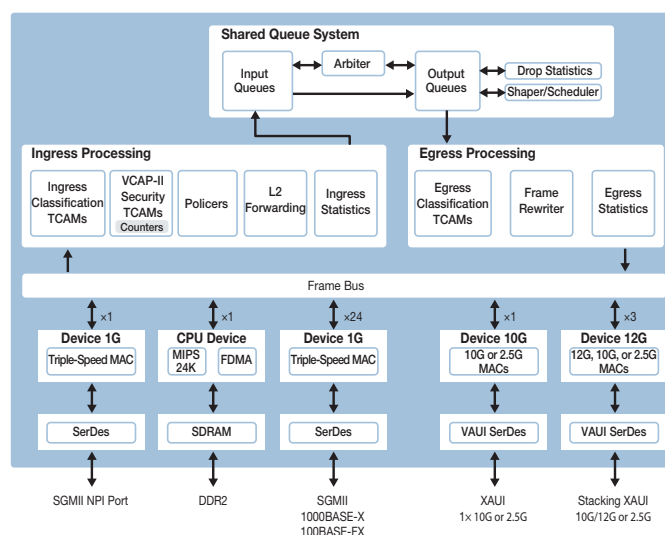- IPv4 and IPv6
- IGMP and MLD

Stacking

- VStaX™ stacking protocol
- Hardware support for shortest path forwarding
- Fast failover within 100 ms
- 2× 12 Gbps uplink bandwidth using standard cables
- Stacking of up to 16 switches
- Stack-side congestion management

Related Products

Visit www.microsemi.com for information about these related products:

- SparX-III nonstackable Gigabit Ethernet switches with integrated copper PHYs
- VSC8512 12-port copper PHY
- VSC8488 and VSC8484 dual and quad 10G optical PHYs

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