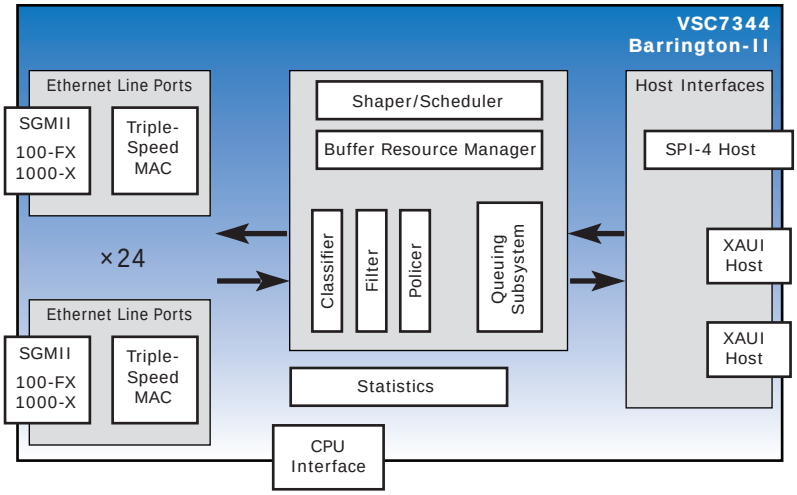
VSC7344 and VSC7346

VITESSE®

Barrington-II™ — 24 × 10/100/1000 and 2 × 10G Ethernet MAC with SPI-4.2 and XAUI Host Interfaces
Schaumburg-II™ — 12 × 10/100/1000 and 1 × 10G Ethernet MAC with SPI-4.2 and XAUI Host Interfaces



BLOCK DIAGRAM:



FEATURES:

- Supports full line rate (24G)
- Expandable to 48 triple-speed ports
- SPI-4.2 or XAUI host interface provides seamless connection to a variety of 10G and next-generation 20G/40G packet processors
- 10/100/1000M and 10G line ports reduce the number of components needed to build high-density line cards
- 2:1 and 4:1 oversubscription eliminates unused bandwidth at the client interface and fully utilizes shared network services processor
- Connects directly to 1G copper PHYs, 100M/1G optical SFP modules, and 10G XENPAK/X2 optical modules
- Advanced Quality of Service (QoS) guarantees delivery of differentiated services
- Full RMON 1 statistics and applicable IEEE-802.3 and SNMP statistics provide extensive support for performance monitoring and billing

KEY SPECIFICATIONS:

- 1.2 V core power supply
- 1.8 V and 2.5 V interface power supply
- 10 W power dissipation
- 27 mm × 27 mm, 672-pin, flip chip ball grid array (FCBGA) package

VPPD-01898
Revision 1.0

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GENERAL DESCRIPTION:

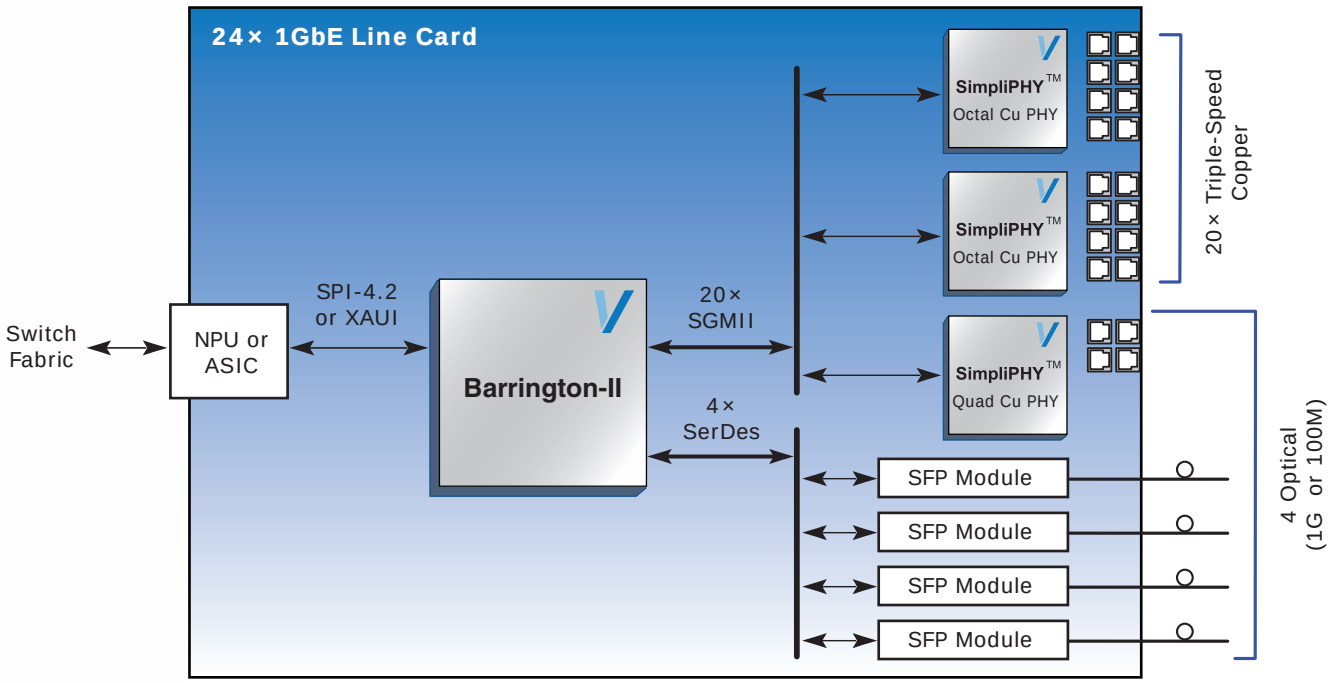


Barrington-II (VSC7344) is an advanced Ethernet MAC containing 24 10/100/1000 Ethernet ports with integrated SGMII and 100/1000 optical serializers/deserializers. The host interface can be configured as SPI-4.2, one XAUI, or two XAUI interfaces. Each SPI-4.2 and XAUI host interface uses a SPI-4.2 status channel for flow control. To support the high oversubscription factor, the Barrington-II has a set of advanced QoS features.

When using the SPI-4.2 host interface, both XAUI ports are available for use as 10 gigabit Ethernet line ports.

In addition to Barrington-II, Vitesse offers Schaumburg-II (VSC7346), an advanced Ethernet MAC containing 12 10/100/1000 Ethernet ports. It has the same features and functionality as Barrington-II.

APPLICATION DIAGRAM:



APPLICATIONS:

- Ethernet L2/L3 switches and routers
- Ethernet aggregation
- Ethernet over SONET
- Ethernet over DWDM
- Security appliances
- Storage networks

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741 Calle Plano
Camarillo, CA 93012, USA
Tel: +1 805.388.3700
Fax: +1 805.987.5896
www.vitesse.com
sales@vitesse.com