VSC7344
VSC7346

Ethernet Line Ports

| SGMII 100-FX 1000-X | Triple-Speed MAC |

×24

Ethernet Line Ports

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Shaper/Scheduler

Buffer Resource Manager

Classifier | Filter | Policer | Queuing Subsystem

Statistics

CPU Interface
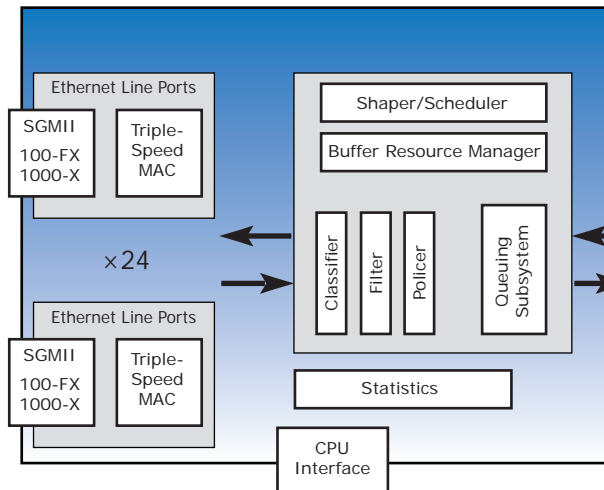
FEATURES:

▶ 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 mon and billing

KEY SPECIFICATIONS:
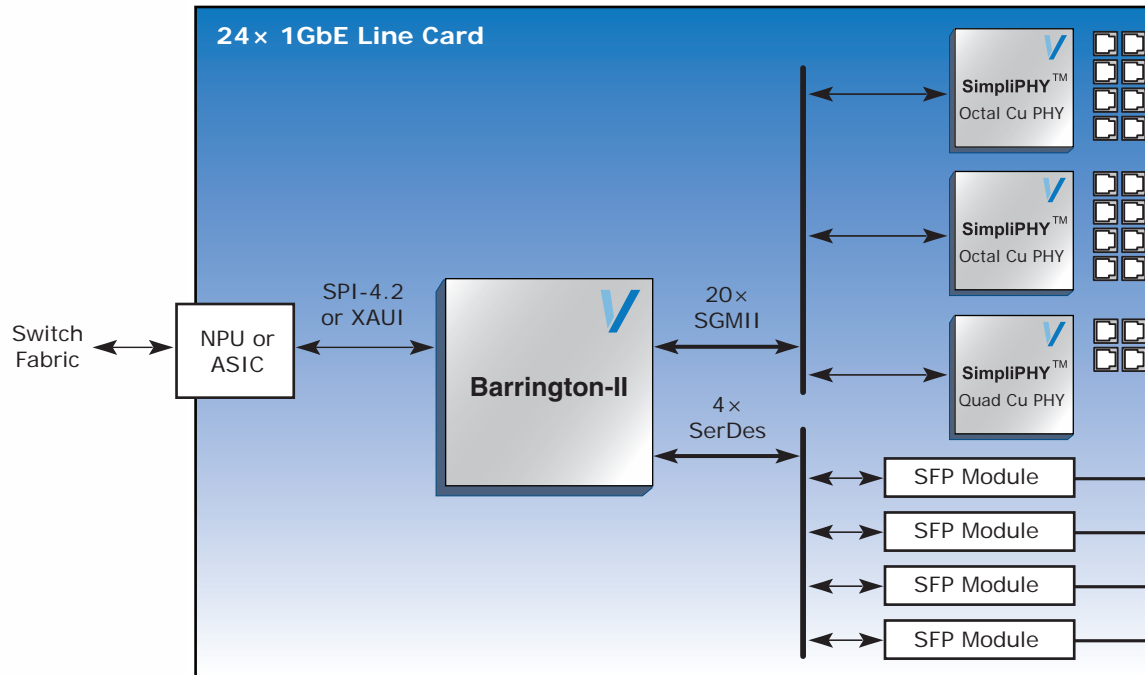
▶ 1.2 V core power supply

▶ 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

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.

In addition to Barrington-II, Vitesse offers Scha
advanced Ethernet MAC containing 12 10/100/1
the same features and functionality as   Barringt

APPLICATION DIAGRAM:

24× 1GbE Line Card

- Switch Fabric
- NPU or ASIC
- SPI-4.2 or XAUI
- **Barrington-II**
- 20× SGMII
- 4× SerDes
- SimpliPHY™ Octal Cu PHY
- SimpliPHY™ Octal Cu PHY
- SimpliPHY™ Quad Cu PHY
- SFP Module
- SFP Module
- SFP Module
- SFP Module

APPLICATIONS:

▶ Ethernet L2/L3 switches and routers

▶ Ethernet aggregation

▶ Ethernet over SONET

▶ Ethernet over DWDM

▶ Security appliances

▶ Storage networks