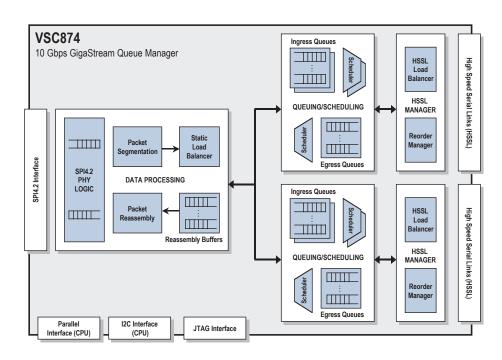
GigaStream® 10 Gbps Queue Manager with Integrated SPI4.2 Interface





FEATURES:	BENEFITS:
➤ SPI4.2 Interface	▶ A standard 10 Gbps Interface
▶ 16 High-speed Serial Links	▶ Provides 40 Gbps of Backplane Bandwidth
▶ Dual Ingress and Egress Queuing Engines	▶ Can Provide Eight Traffic Classes Per Queuing Engine
▶ Direct Mode	▶ No Switch Chip is Needed Supports Mesh Mode Configuration
▶ Fabric Mode	▶ Can Operate in a Dual Star Fabric Configuration
▶ Framer Interface	▶ Can Connect Directly to Framers or Macs
▶ Packet Interface	► Can Connect Directly to NPUs and CPUs
▶ Interfaces with Existing GigaStream Devices	► Can Easily Operate with Existing GigaStream Devices
➤ Automatic Load Balancing Across Switch Chips	▶ Traffic is Only Sent to Active and Working Switch Chips

APPLICATIONS:

- ▶ IP Service Appliances
- ▶ Edge/Access Routers
- ▶ Multi-service Provisioning Platforms

- ▶ 3G Wireless Platforms
- ▶ Media Gateways

GigaStream® 10 Gbps Queue Manager with Integrated SPI4.2 Interface

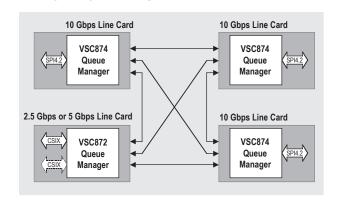
GENERAL DESCRIPTION:



The VSC874 is a highly integrated 10 Gbps Queue Manager part of Vitesse's GigaStream family of Intelligent Switch Fabric devices. This device provides a standard-interface intelligent switching solution ideal for a

variety of access/edge, metro, and core applications. Typically, the VSC874 is used on a variety of line cards where it connects directly to media access controllers (MAC), framers, and network processing units (NPU). These line cards can then be interconnected using either a low-cost mesh without a switch device ('direct mode') or traditional central-switch architecture ('fabric mode').

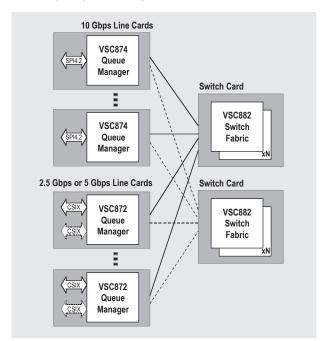
DIRECT MODE DIAGRAM:



SPECIFICATIONS:

- ▶ SPI4.2 Interface that can Operate up to 16 Gbps
- ▶ 16 High Speed Serial Links that can Operate up to 40 Gbps
- ▶ Can Operate in Direct Mode or Fabric Mode
- > SPI4 Interface can Operate in Framer Mode or Packet Mode
- ▶ Up to 16 Traffic Classes for Unicast and Multicast Data
- ▶ Provides SPI4 Burst Segmentation and Re-assembly
- ▶ Automatic Load Balancing Across one to Sixteen VSC882 Switch Chips
- ▶ Parallel and Two-wire Serial Interface
- ▶ Housed in a 672 BGA Package

FABRIC MODE DIAGRAM:



For more information on Vitesse Products visit the Vitesse web site at www.vitesse.com or contact Vitesse Sales at (800) VITESSE or sales@vitesse.com

Vitesse, ASIC-Friendly, FibreTimer, TimeStream and Snoop Loop are trademarks of Vitesse Semiconductor Corporation. All other trademarks or registered trademarks mentioned herein are the property of their respective holders. Vitesse Semiconductor Corporation ("Vitesse") retains the right to make changes to its products or specifications to improve performance, reliability or manufacturability. All information in this document, including descriptions of features, functions, performance, technical specifications and availability, is subject to change without notice at any time.

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