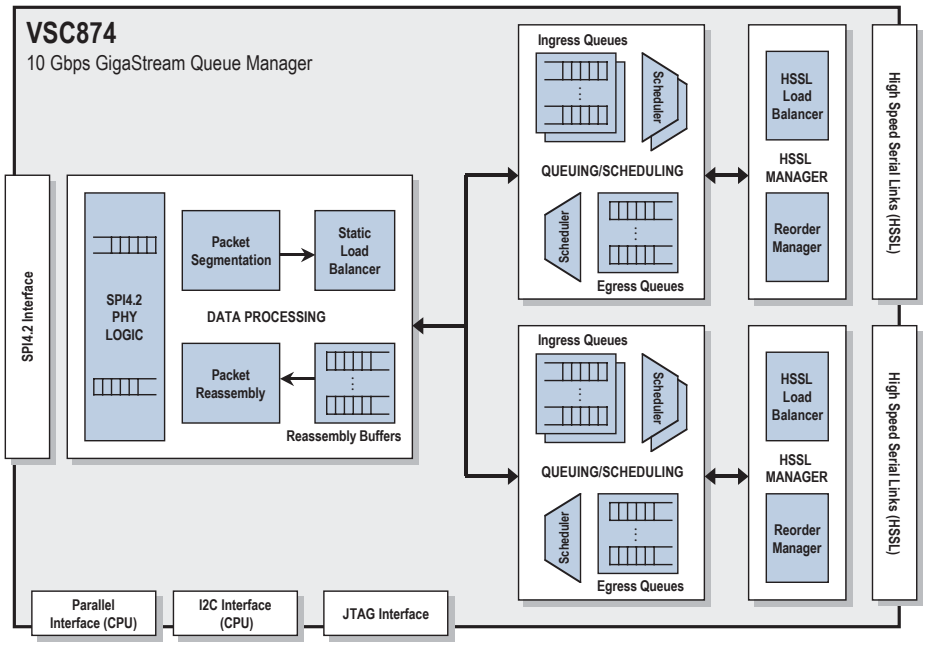
NETWORK PRODUCTS

VSC874

VITESSE

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

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VSC874

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

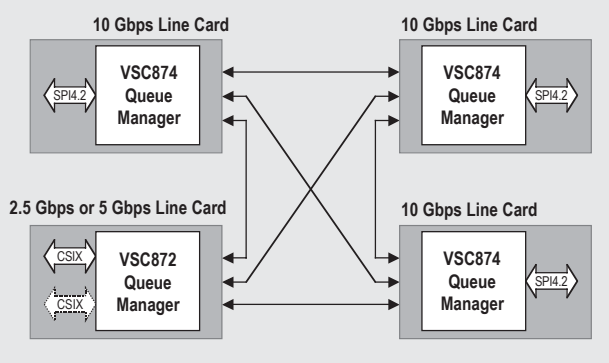
GENERAL DESCRIPTION:

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').

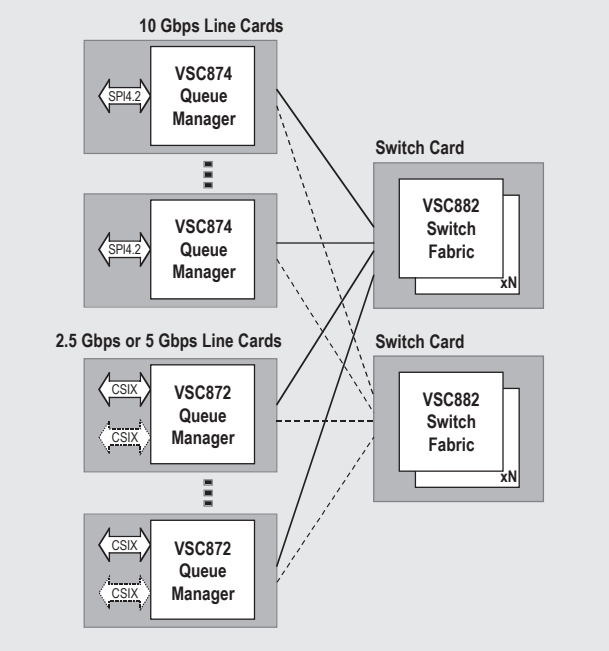
SPECIFICATIONS:

- 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

DIRECT MODE DIAGRAM:



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

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