

VSC9188

VITESSE

VSC9188 Stratton - 2.5 Gb/s VT1.5 Pointer Processor Path Terminator and Column Aligner



FEATURES:

- (Bidirectional 2.5 Gb/s VT1.5 Pointer Processor, Path Terminator and Column Aligner
- (VT1.5 Pointer Processing on 4 x 336 VT1.5 Groups within 4 x STS-12 Backplane Signals
- (Path Termination and Generation of STS-1 Traffic
- (4 x 622 Mb/s STS-12 LVDS Backplane Interface Inputs with Integrated CDR and Realignment
- (Two 4 x 622 Mb/s STS-12 LVDS Backplane Interface Outputs for Working and Protection Fan-out
- (Interfaces with VSC9186 10 Gb/s Pointer Processor and VSC9187 3024 x 3024 VT1.5 TSI
- (Generates In-band VT Signalling of UPSR Performance Monitoring Information for Hardware-based Protection Switching in VSC9187 3024 x 3024 VT1.5 TSI

KEY SPECIFICATIONS:

PARAMETERS	DESCRIPTION	Min	Max	Conditions
Vdd_core	Voltage for Core	2.97V	3.63V	Recommended 3.3V
Vdd_IO	Voltage of IO cells	2.3V	2.7V	Recommended 2.5V
POWER DISSIPATION				
IDD_2.5	Peak power supply current from 2.5V VDD	–	0.3A	Nominal
PD_typical	Typical power dissipation		3 W	Nominal
PD_peak	Peak power dissipation		5 W	Nominal
Backplane Data I/Os	622 Mb/s LVDS			

- (2.5V/1.8V Power Supply, 0.18µm Technology
- (Compliant with SONET Requirements as Stated in ANSI T1.105 and Telcordia GR-253-CORE
- (Facilitates Hardware-based UPSR Switching in Accordance with Telcordia GR-1400-CORE
- (Provides JTAG TAP Controller Conforming to the IEEE 1149.1 Standard
- (Thermally-enhanced 552-pin CCGA Package

SPECIFICATIONS:

- (2.5V/1.8V power supply, 0.18µm technology

APPLICATIONS:

- (VT1.5 Pointer Processing
- (Column Aligning
- (Performance Monitoring
- (Interface to a Large-scale VT1.5 Crossconnect.

BENEFITS:

- (Low Cost
- (Low Power
- (High Functionality

GENERAL DESCRIPTION:

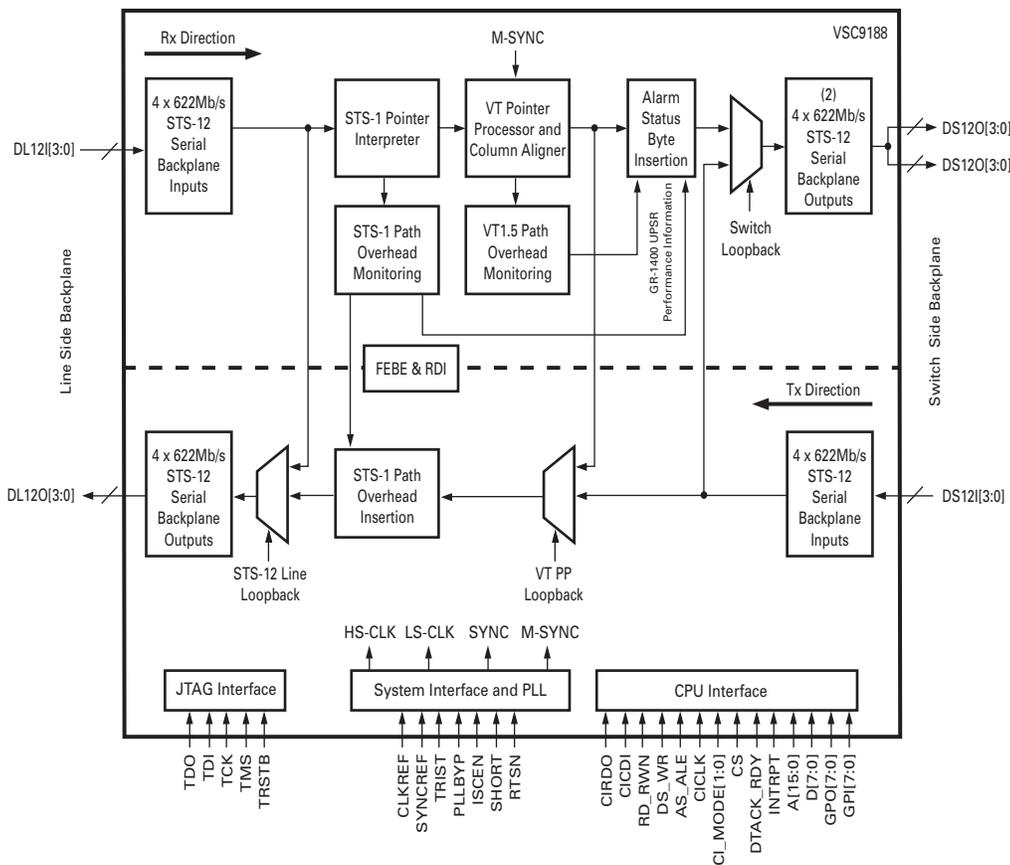


The VSC9188 is a VT1.5 Pointer Processor and Column Aligner. The primary application for this device is to provide column alignment and performance monitoring for VT1.5 payloads and interface these tributaries to a large-scale VT1.5 crossconnect.

The VSC9188 receives four serial STS-12 622 Mb/s signals from a VSC9186 10Gb/s Pointer Processor or VSC9182 STS-1 grooming crossconnect. These signals are terminated at the path level, monitored at the VT1.5 level, and

column-aligned at the VT1.5 level in a deterministic fashion to a local SYNC signal. GR-1400 UPSR performance information is aggregated and placed in the VT overhead for use in the VT crossconnect. The four processed serial STS-12 622 Mb/s signals are duplicated on working and protection STS-12 622 Mb/s outputs for fan-out to protected VT fabrics. Four serial STS-12 622 Mb/s signals are received from the switch and the Path Overhead (POH) is reconstructed prior to transmission. Various loopback and test modes are also available.

VSC9188 BLOCK 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

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