



# SONET/SDH IP/ATM Framer and Mapper

## VSC9142

### Product Brief

Framers  
and  
Mappers

#### Features Continued:

##### Line Interface

- 4-bit 622 MHz OIF Parallel Interface and Synchronization for STS-192 Applications
- 2.5 Gb/s Serial Line Interface with Integrated CMU and CDR
- Power-Save Mode for Unused I/Os

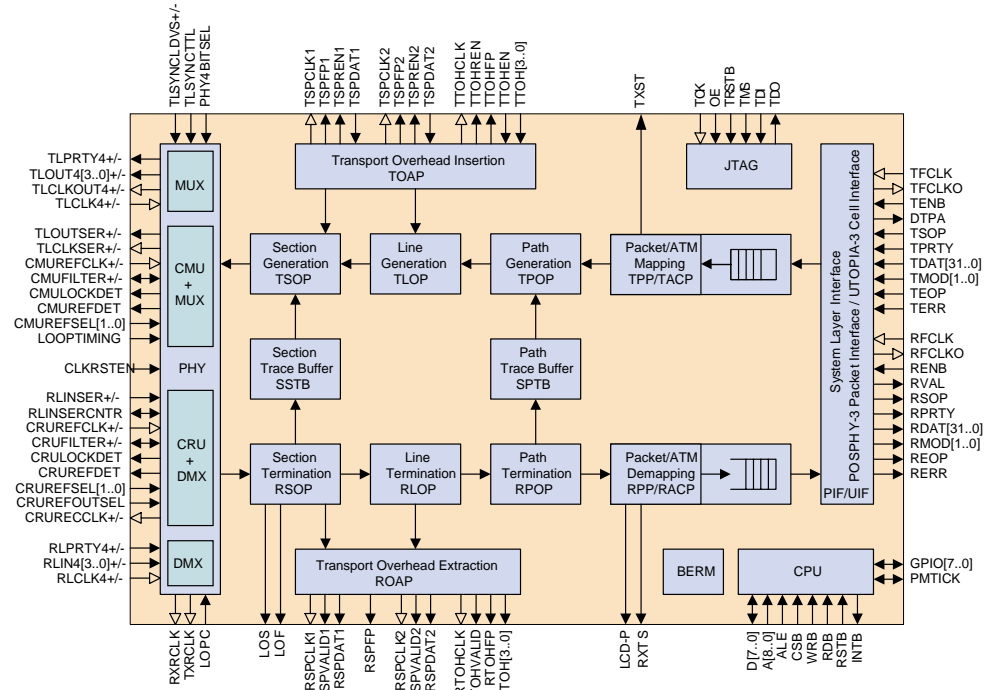
##### Special Features

- Extensive Packet / Cell Performance Monitoring Features
- 16 Kb Packet / Cell FIFO for Full Packet Encapsulation
- Programmable Error Discarding and Label Filtering
- Rx and Tx Timestamp Feature for Performance Monitoring Applications

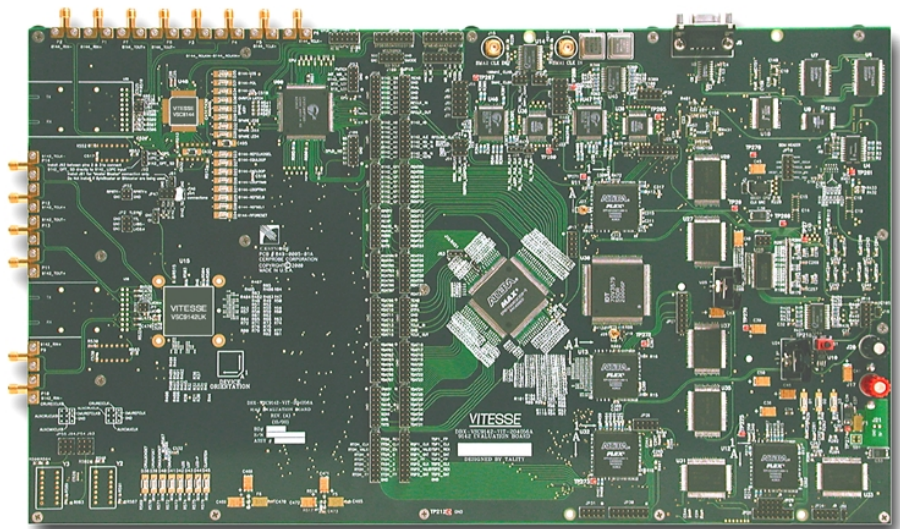
##### Miscellaneous Features

- Generic 8-bit CPU Interface
- Compliant JTAG Boundary Scan Interface
- Five Loopback Modes for Test and Diagnostic Applications
- 0.18 micron CMOS, 320-pin TBGA, 2.5 Watts

#### VSC9142 Block Diagram



#### VSC9142 Reference Board



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