

## Range of Support

- IEEE 1588v2/Y.1731 OAM precision timing support at 1.25 Gbps and 10.3 Gbps
- Compliant to IEEE 802.3ae and SFF-8431 electrical (SFI) specifications
- 9.95 Gbps WAN and 10.3 Gbps LAN operation, as well as 1.25 Gbps Ethernet support
- Supports all standard SFP+ applications
- Support for 10GBASE-KR (IEEE 802.3ap) for 10G backplanes, including 1.25 Gbps and 10.3 Gbps autonegotiation
- Adaptive equalization receiver and programmable, multitap transmitter pre-emphasis
- Synchronous Ethernet support
- MDIO/SPI and two-wire serial slave management interfaces

## Key Specifications

- 900 mW typical for each bidirectional channel
- 1.2 V and 1.0 V core power supplies (2.5 V TTL supply)
- 0 °C to 95 °C temperature range for VSC8489-10
- -40 °C to 110 °C temperature range for VSC8489-13

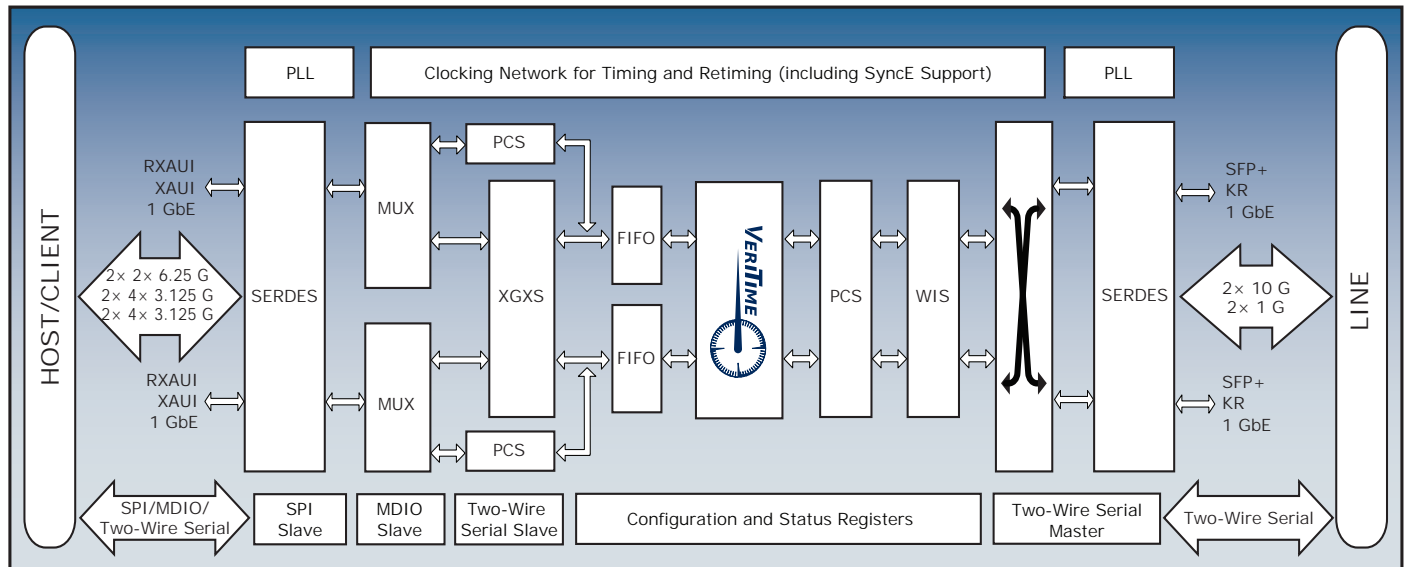
## Flexibility

- Failover switching and lane ordering
- VScope input signal monitoring integrated circuit
- Host-side and line-side loopbacks with BIST functions
- I/O programmability for lane swap, invert, amplitude, slew, pre-emphasis, and equalization
- Optional forward error correction (FEC)
- Synchronous Ethernet support with flexible clocking
- Passive copper cable support for minimum transmission cost
- Pin-compatible with VSC8489, VSC8490, and VSC8491

## Related Vitesse Products

Visit [www.vitesse.com](http://www.vitesse.com) for information about these related Vitesse products:

- VSC8490-10
- VSC8491-10
- VSC8572
- VSC8574
- VSC8584



Vitesse Semiconductor Corporation

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