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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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VSC7110

6.5 Gbps Quad Signal Conditioner

VSC7110 is a high-performance, quad-channel asynchronous buffer that simplifies high-speed signal path designs (up to 6.5 Gbps) by providing Microsemi's industry-proven signal equalization at both the inputs and the outputs. The device optimizes energy efficiency with innovative Green modes that lower power consumption at lower data rates. Additional power savings can be achieved by deactivating unused channels and configuring optimal output level settings for an application.

The VSC7110 device offers programmable, static, and adaptive equalization settings to provide a comprehensive solution for countering signal degradation over a wide variety of cabling and interconnect transmission paths in server, video, and storage applications.

VSC7110 is fully compatible with the latest server, video, interconnect, and storage protocol data rates including Ethernet, HDMI 2.0, 6G SDI, PCIe Gen 1/ 2, and SAS/SATA.

Loss of signal (LOS) detectors with programmable thresholds are included on every input port. Out-of-band (OOB) signal forwarding can be enabled on each output. The VSC7110 can be configured for pass-through 4-channel buffer, dual 2 × 2 matrix, dual 1:2 duocast, or dual 2:1 selector configurations.

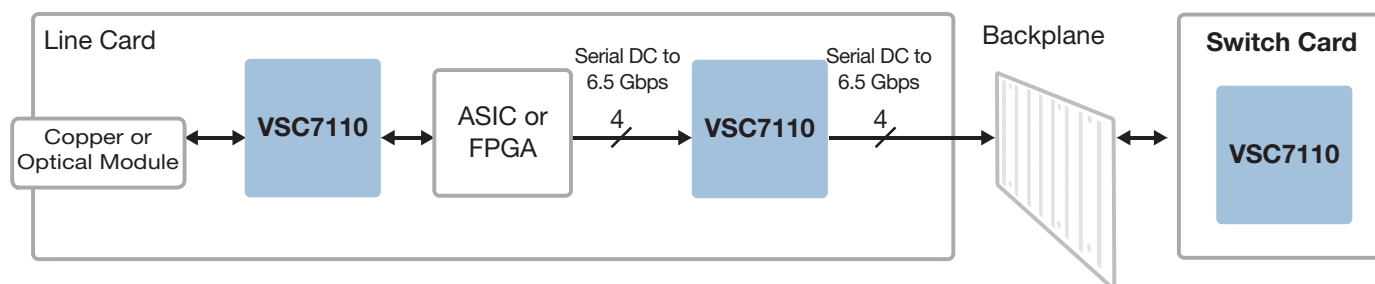
Highlights

- Up to 6.5 Gbps asynchronous operation
- Energy-efficient Green modes
- Adaptive equalization
- Programmable transmit output

Applications

- Blade servers
- Video switches
- Storage interconnect
- High-speed cable and backplane equalization

VSC7110 Line Card and Central Switch Card Applications



VSC7110

6.5 Gbps Quad Signal Conditioner

Flexible Architecture

- 0 Gbps to 6.5 Gbps asynchronous operation
- 4-channel buffer, dual 2 × 2 matrix, dual 1:2 duocast, or dual 2:1 selector configurations

Best-in-Class EQ

- Input EQ of 22 dB at 6.5 Gbps
- 6 dB transmit pre-emphasis with 15 output levels (maximum 1600 mV differential peak-to-peak)
- Input sensitivity 100 mV differential peak-to-peak

Protocols

- Gigabit Ethernet, XAUI, and RXAUI Ethernet formats
- HDMI 2.0 and 6G SDI data rate support
- PCIe Gen 1/2 receive detection and state machine
- SAS/SATA-compatible loss of signal (LOS) detection and out-of-band (OOB) forwarding

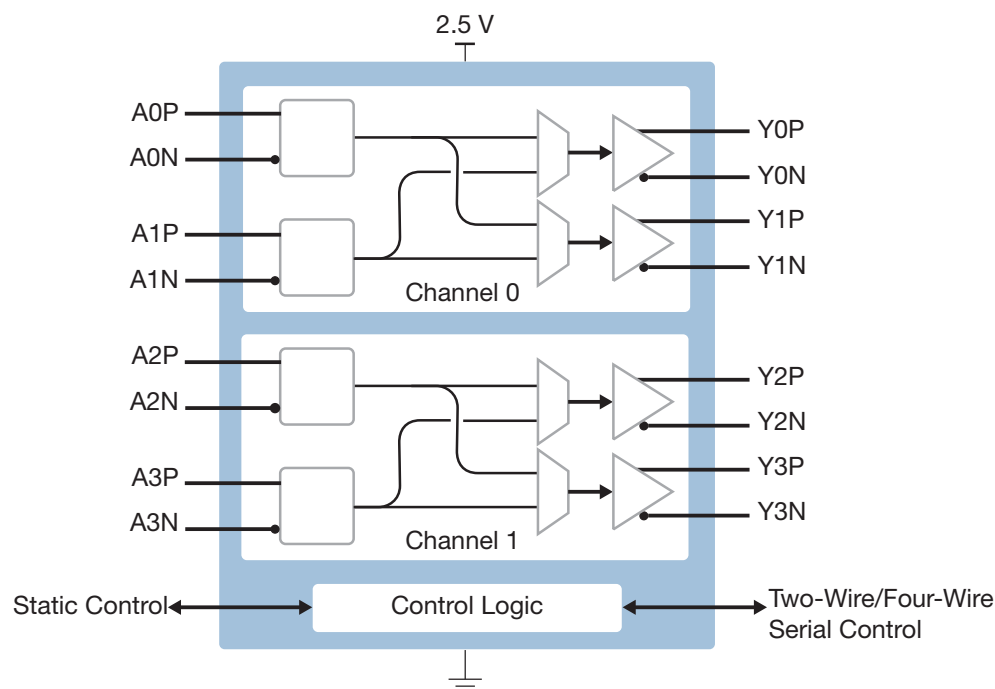
Key Specifications

- 2.5 V power supply
- 118 mW typical power consumption per channel in Green mode
- 32-pin, 5 mm × 5 mm QFN package
- Extended temperature range of -40 °C ambient to 110 °C junction

Related Products

Visit www.microsemi.com for information about these related products:

- Crosspoint Switches
- Ethernet Switches
- 1G and 10G PHYs



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