



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



VSC3104, VSC3108

VITESSE

The VSC3104 is a 4x4 crosspoint switch with integrated equalization
 The VSC3108 is a 8x8 crosspoint switch with integrated equalization



APPLICATIONS:

- ▶ Backplane Driver/Receiver
- ▶ Loop-back Switch
- ▶ Protection Switching
- ▶ Fan-out Buffering
- ▶ Cable Driver/Receiver
- ▶ Wire Re-ordering

FEATURES:

- ▶ High Data Rate Support, up to 6.5 Gb/s
- ▶ Integrated Equalization
- ▶ Low Cost
- ▶ Compact Form Factor
- ▶ Single Supply Operation
- ▶ Highly Programmable
- ▶ Robust Operation Across Voltage and Temperature
- ▶ Fully Asynchronous Operation
- ▶ Excellent Crosstalk and Noise Immunity

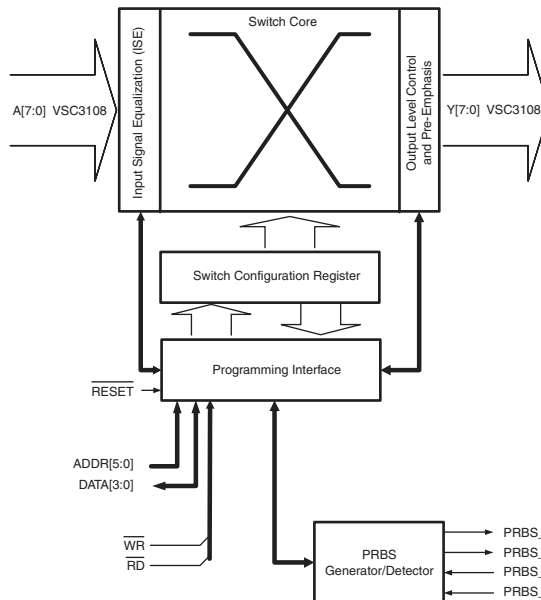
BENEFITS:

- ▶ Enables Operation at Higher Data Rates and/or Improves Operating Margins
- ▶ Controls Difficult Signal Integrity Problems
- ▶ Asynchronous Operation Allows Application Across any Data Format and Speed.
- ▶ Low Skew Enables Precision Fan-out Buffering

SPECIFICATIONS:

- ▶ 0 to 6.5 Gb/s Data Rate
- ▶ 20ps Added Jitter
- ▶ 10ps Channel to Channel Skew
- ▶ 2.5V Power Supply with a 3.3V Option
- ▶ 50ps Output Rise/Fall Time
- ▶ 50Ω Output Source Termination
- ▶ 100Ω Input Differential Termination
- ▶ 250mW Per Channel Power Dissipation
- ▶ 100mV – 2400mV Input Signal Range
- ▶ 550mV – 1100mV Programmable Output Swing

VSC3108 BLOCK DIAGRAM:



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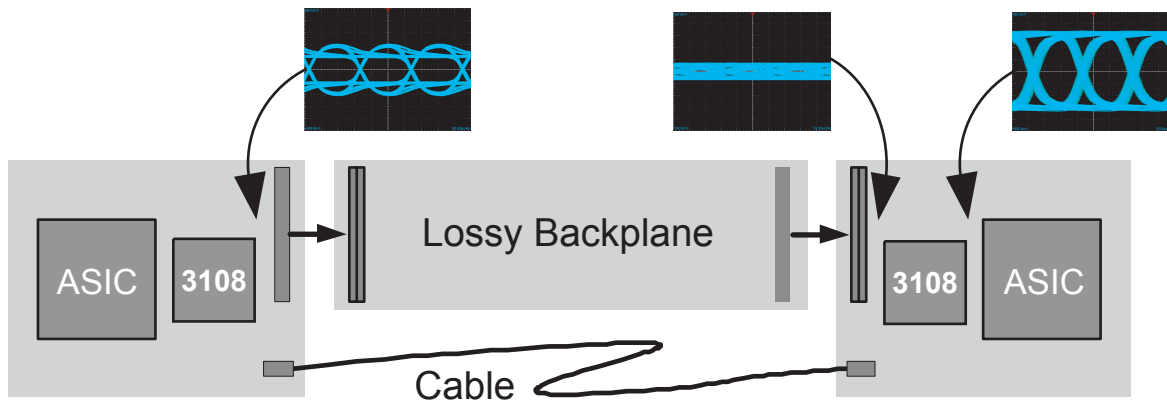
GENERAL DESCRIPTION:



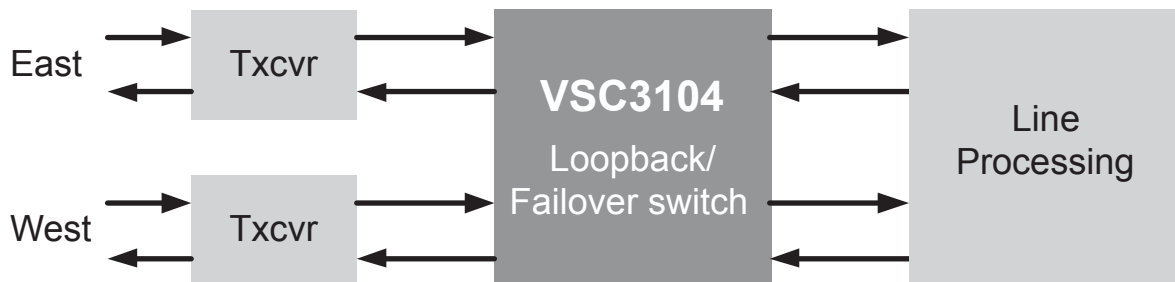
The VSC3104/3108 are multipurpose switching devices that are designed to enable next generation backplane designs, and extend the life of existing backplanes. The integrated equalization capabilities at both the input and output effectively absorb the effects of signal loss through copper interconnect, either printed circuit board traces, or cable.

The function of the VSC3104/3108 is simple, yet powerful, creating multiple applications just about anywhere high-speed signals are present. The fully broadband, non-blocking and multi-cast capable switch core allows the VSC3104/3108 to be configured as a 1:4/1:8 fan-out buffer with very low channel-channel skew, or as a 4/8 channel signal conditioner.

SIGNAL CONDITIONING APPLICATION:



SIGNAL SWITCHING/ROUTING APPLICATION:



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