阅读申明

1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描叙上的差异，建议读者做出适当判断。
4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.

2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader’ s learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.

3. All product information provided on the website refer to solutions from manufacturers’ technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.

4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with “Datasheets”.

Downloaded from www.iczoom.com

11.5 Gbps 8 × 8 Crosspoint Switch

Vitesse's multichannel 11.5 Gbps crosspoint switch provides a cost-effective solution for high-speed copper interconnects

Highlights

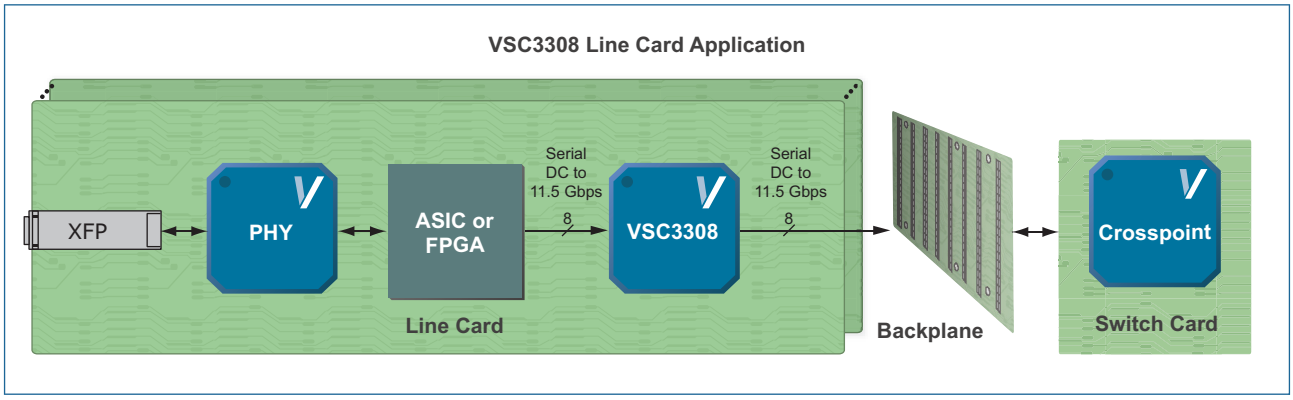
- DC to 11.5 Gbps operation
- 8 × 8 fully non-blocking switch capability
- Protocol-transparent operation
- Advanced EQ

Applications

- Blade servers
- Storage servers
- Telecom
- Video distribution
- Test and Measurement equipment

The VSC3308 is the industry's highest performance signal integrity crosspoint solution. The VSC3308 is uniquely capable of addressing a wide array of routing, switching, and signal integrity issues across storage, blade server, video distribution, telecommunications, and Ethernet applications. Featuring an 8 × 8 non-blocking, multicasting switch core with ports running at any rate up to 11.5 Gbps, the VSC3308 architecture provides protocol-transparent operation, allowing each channel to run independently. The VSC3308 supports a wide frequency range and virtually all data protocols.

The VSC3308 incorporates Vitesse's fourth-generation input equalization and pre-emphasis I/O capability for the industry's highest speed and protocol requirements. The device can perform signal fanout, loopback, and protection switching. It can also regenerate signals severely compromised by transmission losses. Vitesse's equalization works independently of the data rate, providing highly effective compensation for deterministic jitter across a wide range of high-speed interconnect applications.



Using the VSC3308 in high-speed line cards ensures best-in-class I/O performance up to 11.5 Gbps with EQ technology to compensate for connector, backplane, and FR-4 loss.

Speed and Protocol Support

- 11.5 Gbps non-return-to-zero (NRZ) data bandwidth
- Protocol-transparent

Architecture

- Fully non-blocking and multicasting switch core
- LOS detection and forwarding (supports out-of-band signaling)
- Fully asynchronous operation with <1 ns latency
- 8 × 8 switch core enables signal fanout, loopback, and protection switching

Signal Integrity

- Multiple time-constant programmable input and output equalization
- Wide equalization adjustment range
- Input EQ of 26 dB at 11.5 Gbps
- 9 dB of pre-emphasis
- Embedded post-EQ eye opening monitor per channel

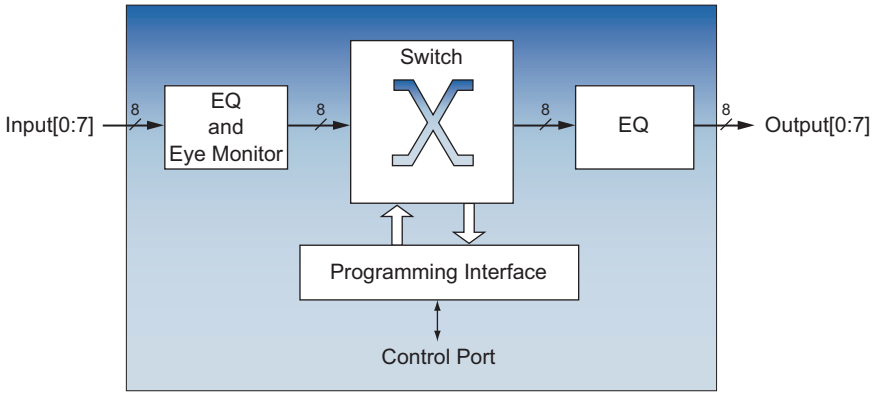
Key Specifications

- 11.5 Gbps NRZ per channel data rate
- 2.5 V power supply
- 10 mm × 10 mm flip chip ball grid array package

Related Vitesse Products

Visit www.vitesse.com for information about these related Vitesse products:

- Crosspoint Switches
- Ethernet MACs
- Mux, Demux, and Transceivers
- Electronic Dispersion Compensation CDRs



Vitesse Semiconductor Corporation
741 Calle Plano • Camarillo, CA 93012 USA • Tel: +1.800.VITESSE • +1.805.388.3700 • Fax: +1.805.987.5896 • www.vitesse.com

© 2010 by Vitesse Semiconductor Corporation. VPPD-02382 Revision 1.0. Vitesse Semiconductor Corporation ("Vitesse") retains the right to make changes to its products or specifications. As such, all information in this document, including descriptions of features, functions, performance, technical specifications and availability, is subject to change without notice at any time, and Vitesse assumes no responsibility for use of any information herein. Nothing contained herein conveys to the purchaser of microelectronic devices any license under the patent or any other intellectual property rights of any manufacturer. Vitesse®, and numerous other trademarks, are trademarks of Vitesse in the United States and/or other jurisdictions. Other trademarks used herein that are not the property of Vitesse are the property of their respective owners. While Vitesse products support IEC 60825, use of Vitesse products does not ensure compliance to IEC 60825. Buyers are responsible for ensuring compliance to IEC 60825. Buyers must fully indemnify Vitesse for any damages resulting from non-compliance to IEC 60825.