Description

With the world's highest channel density, the VRC7032 PCI Express Digital Video Recorder (DVR) add-in card features three Stretch S7100 software configurable processors and performs H.264 encoding on 32 channels of standard definition video at full resolution and frame rate. Extensive video preprocessing coupled with the power of the Stretch High Profile CODEC gives the VRC7032 the best video quality in the industry.

At equivalent quality levels, VRC7032-compressed streams have one-half the bit rate of those produced by competitors' solutions. This results in a 50% reduction in storage costs for surveillance installations using the VRC7032. The Stretch Scalable Video CODEC (SVC) provides ultimate flexibility by delivering video over constrained bandwidth networks and allows the stored video to be managed over time, further reducing storage costs.

The VRC7032 provides two channels of standard definition spot monitor output and can perform scaling and tiling of video into any user-defined arrangement for display. Its high bandwidth PCIe interface allows connectivity with host systems.
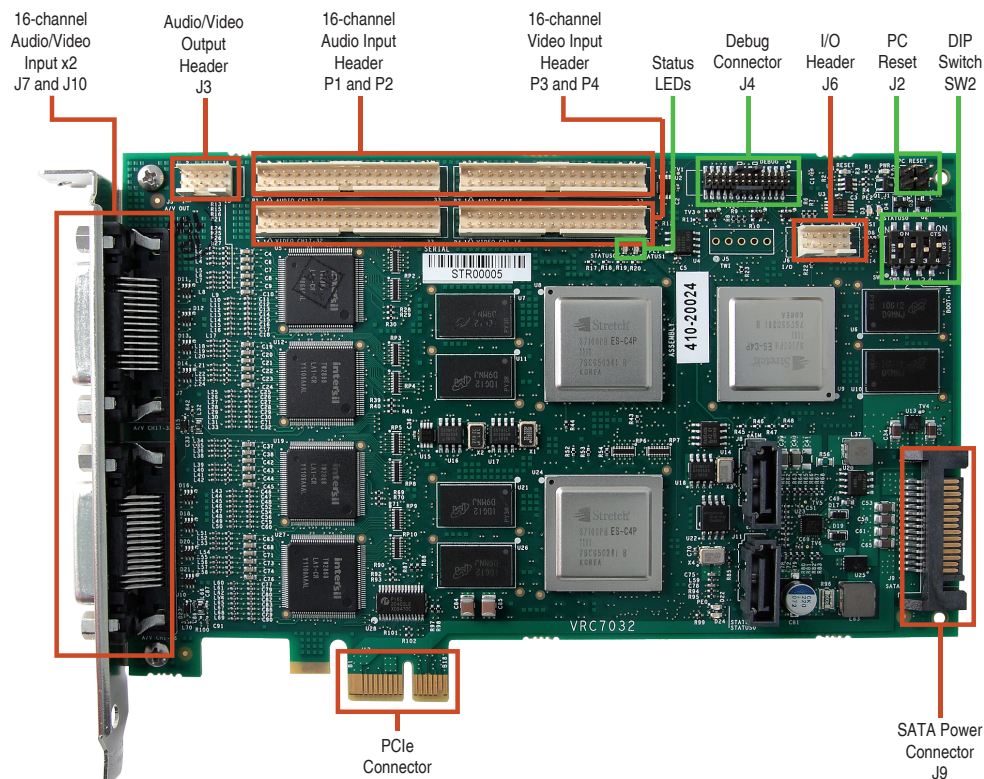
FEATURES

- 32 Channel H.264 High Profile encoding
- SVC for ultimate flexibility
- Industry's best video quality
- Rich and intuitive API
- Linux and Windows SDK

BENEFITS

- Low system bills of materials
- Low bit rate for reduced storage costs
- High quality video archive
- Fast time to market
- Plug-and-play compatibility

APPLICATIONS

- PC-based Digital Video Recorder (DVR)
- Hybrid Network Video Recorders (H-NVR)

16-channel Audio/Video Input x2 J7 and J10 · Audio/Video Output Header J3 · 16-channel Audio Input Header P1 and P2 · 16-channel Video Input Header P3 and P4 · Status LEDs · Debug Connector J4 · I/O Header J6 · PC Reset J2 · DIP Switch SW2 · PCIe Connector · SATA Power Connector J9

It also supports 16 channels of alarm input–output and an RS485 interface for remote camera control through an I/O header. The card also has a debug connector for UART and JTAG interfaces, which facilitates hardware and software debugging.

The VRC7032 features Stretch's standard Application Programming Interface (API), ensuring plug and play compatibility with existing Stretch installations and rapid porting of third-party applications. The VRC7032 is available as production-ready OEM units for volume production, and has an Evaluation Kit (EVK). EVKs are intended for evaluation purposes.

Ordering Information[1]

Part Number	Minimum Order Multiple	Description
OEM - VRC7032	20	32-Channel PCIe DVR OEM card
EVK-VRC7032	-	VRC7032 Evaluation Kit

NOTE:
1. Refer to www.exar.com/VRC7032 for most up-to-date Ordering Information.

Please contact videotechsupport@exar.com to request a complete datasheet.

www.exar.com

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