



Exar Targets Video Surveillance with High Resolution DVR Solution

VRC7008E DVR PCIe card records 8-channel 960H video with H.264 encoding at full-frame rate and resolution

FREMONT, Calif., Sept. 21, 2015 /PRNewswire/ -- Exar Corporation (NYSE: EXAR), a leading supplier of high-performance integrated circuits and system solutions, today announced the release of the [VRC7008E](#) Digital Video Recorder (DVR) PCI Express (PCIe) add-in card. Designed for professional video surveillance applications, the VRC7008E card features the Exar S7100 software configurable processor and performs H.264 encoding on eight channels of up to 960H NTSC/PAL video at full resolution and frame rate. With 960H video, surveillance professionals realize a 33% greater horizontal field-of-view (FOV) than that provided by typical CCTV video cameras. This increased FOV reduces the number of surveillance cameras required and increases resolution for a given coverage area.

Extensive video preprocessing coupled with Exar's Intelligent Encoder gives the VRC7008E pristine video quality while maintaining high compression levels. This results in tremendous reduction in storage costs for surveillance installations using the VRC7008E card. The programmable accelerator of the S7100 at the core of the intelligent encoder delivers multi-stream encoding of baseline, main and high-profile H.264 Advanced Video CODEC (AVC). In addition, the S7100 video processor drives H.264 Scalable Video CODEC (SVC) compression, enabling flexible and efficient resizing and resampling of multi-stream surveillance video. Compressed video can be adapted to match the available network bandwidth and decode capabilities of the client. SVC streams also can be parsed to reduce their storage requirements over time to retain a valid video archive for longer periods than would otherwise be possible. This reduces both operating and storage costs.

The VRC7008E is designed specifically for video surveillance equipment OEMs. The card is controlled via the Intelligent Encoder Software Development Kit (SDK) for either Linux or Windows. The VRC7008E is compatible with all Exar S7000-based PCIe cards. OEMs already familiar with the SDK can integrate the card into their software in a matter of hours. With clear SDK documentation and the support of Exar's application engineering group, new design teams also achieve rapid time-to-market. The low profile, short form factor card is readily embedded in compact industrial PCs and servers. A high bandwidth PCIe interface provides connectivity to the host. The card also supports eight channels of alarm I/O and an RS485 interface for remote camera control through an I/O header with an optional I/O card.

"These new low profile 960H DVR cards are a great addition to our video surveillance

portfolio," said Colin Earle, Exar's senior director of marketing, video processor products. "The exceptional video quality and compression of the S7100 video processor combined with the greater FOV of 960H enable our OEM partners to stay at the forefront of the video surveillance industry."

The VRC7008E is available for software integration and qualification immediately. For more information, visit www.exar.com/VRC7008E.

Summary of features:

- 960H video improves horizontal resolution by 33%
- Encode and record 8-channel 960H video at full frame rate and resolution
- S7100 video processor delivers H.264 High-Profile AVC or SVC encoding
- Easy integration with the Exar Intelligent Encoder SDK for Linux or Windows

About Exar

Exar Corporation designs, develops and markets high performance integrated circuits and system solutions for the industrial and embedded systems communications, high-end consumer and infrastructure markets. Exar's broad product portfolio includes analog, display, LED lighting, mixed-signal, power management, connectivity, data management and video surveillance solutions. Exar has locations worldwide providing real-time customer support. For more information, visit www.exar.com.

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