Stretch S7000 PCIe DVR Add-in Cards

Complete Solutions for All Your Video Compression, Decode, and Display Needs

S7000 Series PCIe DVR Add-in Cards

Stretch S7000 Series PCIe DVR add-in cards use the power and flexibility of Stretch S7000 family processors to deliver the surveillance industry's best image quality at the lowest available cost per channel. VRC7000 cards are optimized for compression and have multi-CODEC, multi-channel capability. VDC7000 cards have universal decode and extensive image post processing capabilities. Both VRC and VDC cards use the same rich and intuitive application programming interface (API) to ensure interoperability and fast time to market with system solutions.

VRC7000 Series Encoding Cards

VRC7000 cards are available in channel densities from 4 to 32 channels and at resolutions ranging from standard definition up to high definition HDcctv. These cards feature the Stretch Intelligent Encoder and have multi-stream, multi-CODEC capability, including Stretch H.264 Scalable Video CODEC (SVC) and Stretch H.264 High Profile CODEC. These CODECs produce the surveillance industry's best video quality at the lowest bit rate and produce streams that can be managed with unprecedented ease. The result is outstanding quality video that is accessible to diverse client devices and that can be stored for long periods at a fraction of the cost of conventional solutions.

VDC7000 Decode and Display Cards

VDC7000 cards are optimized for decode and use the power and flexibility of S7000 software configurable processors to ensure universal decode capability. Simple software downloads ensure that the decode cards remain compatible with both existing streams and those yet to be released. Output video interface options include high definition HDMI and HDcctv, and standard definition CVBS. Extensive video post processing, scaling, and captioning allow multiple streams of decoded or raw video to be displayed in user-defined configurations. With crystal clear high definition output and universal decode ability, these cards deliver true hybrid capability to Windows or Linux PC-based DVR systems.

System Integration

All Stretch S7000 Series PCIe DVR add-in cards are compatible with the same Stretch Software Development Kit (SDK). The common API means that once ported to the SDK, host application software can be used with different card combinations to deliver systems of the required capabilities. The simplicity and wealth of API calls means that products can be rapidly brought to market re-using the existing host application software.

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Ordering Codes	Form Factor	Multi-Stream Encode/Decode	Display	eAIM	Connectivity
EVK-VRC7032 RDK-VRC7032 OEM-VRC7032	Full Height Short Form	32 D1 Encode	2 CVBS	2 Ports	BNC breakout adapter cable, Embedded I/O headers
EVK-VRC7016LX RDK-VRC7016LX OEM-VRC7016LX OEM-VRC7016X (full height)	Low Profile Short Form	16 D1 Encode	2 CVBS	1 Port	BNC breakout adapter cable, Embedded I/O headers
EVK-VRC7016L RDK-VRC7016L OEM-VRC7016L OEM-VRC7016 (full height)	Low Profile Short Form	16 D1 Encode	None	1 Port	BNC breakout adapter cable, Embedded I/O headers
EVK-VRC7008L RDK-VRC7008L OEM-VRC7008L OEM-VRC7008 (full height)	Low Profile Short Form	8 D1 Encode	1 CVBS	1 Port	BNC breakout adapter cable, Embedded I/O headers
EVK-VRC7004HD RDK-VRC7004HD OEM-VRC7004HD	Full Height Short Form	4 1080p30 Encode	None	2 Ports	BNC connectors on back panel
EVK-VDC7002LHDMI RDK-VDC7002LHDMI OEM-VDC7002LHDMI OEM-VDC7002HDMI (full height)	Low Profile Short Form	16 D1 Decode	2 HDMI	2 Ports	HDMI
EVK-VDC7002LHDCCTV RDK-VDC7002LHDCCTV OEM-VDC7002LHDCCTV OEM-VDC7002HDCCTV (full height)	Low Profile Short Form	2 1080p30 Decode or 16 D1 Decode	2 HDcctv	2 Ports	BNC connectors on back panel
EVK-VDC7004L RDK-VDC7004L OEM-VDC7004L OEM-VDC7004 (full height)	Low Profile Short Form	16 D1 Decode	4 CVBS	2 Ports	BNC breakout adapter cable

Availability

All Stretch PCIe DVR add-in cards are available as both Evaluation Kits (EVK) and Full Reference Design Kits (RDK), or as OEM units sold in multiple-unit packaging. EVKs are designed to provide customers everything they need to evaluate a reference design and to start preliminary design of their own product.

An EVK contains:

- USB-based debug solution
- Source code for
  - » All firmware included with the kit (Intelligent Encoder is delivered as object code)
  - » Host-based applications and drivers
- Two brackets to allow either full height or low profile installation

RDKs provide customers everything they need to design and build differentiated products based on the reference design. An RDK contains the same hardware and software as an EVK plus the following items:

- Hardware design files for the reference design
- A distribution license for the Intelligent Encoder with H.264 AVC/SVC CODEC plug-ins

OEM units consist of the hardware card only and are sold in multiple-unit packages in either full height or low profile configurations. An optional software package is available to give OEM units the same rich API as EVKs and RDKs. Using this optional software load, OEMs and system integrators can easily combine Stretch cards with highly differentiated application software to bring high performance system solutions to market.