



# VRC7004HD

High Definition PCIe DVR Add-in Card



# Stretch VRC7004HD High Definition PCIe DVR Add-in Card

The Stretch VRC7004HD is an HDcctv compliant, four channel, single-lane PCIe DVR add-in card. It features two S7100 software configurable processors, and can capture four high definition HDcctv streams and compress them using the Stretch H.264 High Profile encoder to produce the surveillance industry's best video quality.

## Best video quality

The VRC7004HD is also compatible with the Stretch H.264 Scalable Video CODEC (SVC) and can generate encoded streams with up to nine scalable layers. With this flexible mix of temporal and spatial enhancement layers, the encoded streams can be easily moved across constrained bandwidth networks and decoded by client devices with a wide range of compute abilities. Once stored, SVC streams can be easily managed over time to reduce their storage requirements and to reduce surveillance installation operating costs.

## Ultimate flexibility

The VRC7004HD features two eAIM ports for high-speed connectivity with other Stretch PCIe add-in cards. A VRC7004HD can, for example, be connected directly to a VDC7002LHDMI card to display crisp, high definition video on an HDMI high definition monitor. Using eAIM, cards installed within a host system can communicate, passing data at high speed between them without host processor intervention. In this way, host requirements are reduced and system costs are minimized.

## eAIM interface for high speed connectivity

The VRC7004HD 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 VRC7004HD

is available as production-ready OEM units for volume production, or as either Evaluation (EVK) or Full Reference Design (RDK) Kits. Both kits contain a complete software load for the card, a sample host application, and source code for all included software (the Stretch Intelligent Encoder and CODEC plug-ins are supplied as object code). Stretch EVKs are intended for evaluation purposes and produce watermarked streams. Stretch RDKs can be used as the basis for highly differentiated derivative designs and include a distribution license for the supplied software and hardware design files.

### Key Features

- Four-channel HDcctv capture and compression
- H.264 High Profile and Scalable Video CODECs
- Industry's best video quality
- Two-port eAIM interface
- Compatible with the Stretch DVR Software Development Kit

### Key Benefits

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

### Part Numbers

Evaluation reference design kit

- EVK-VRC7004HD

Full reference design kit – Includes a non-watermarked version of the Stretch Intelligent Encoder and a distribution license for the supplied CODECs

- RDK-VRC7004HD

OEM Cards – Sold in multiple-unit packaging

- OEM-VRC7004HD

