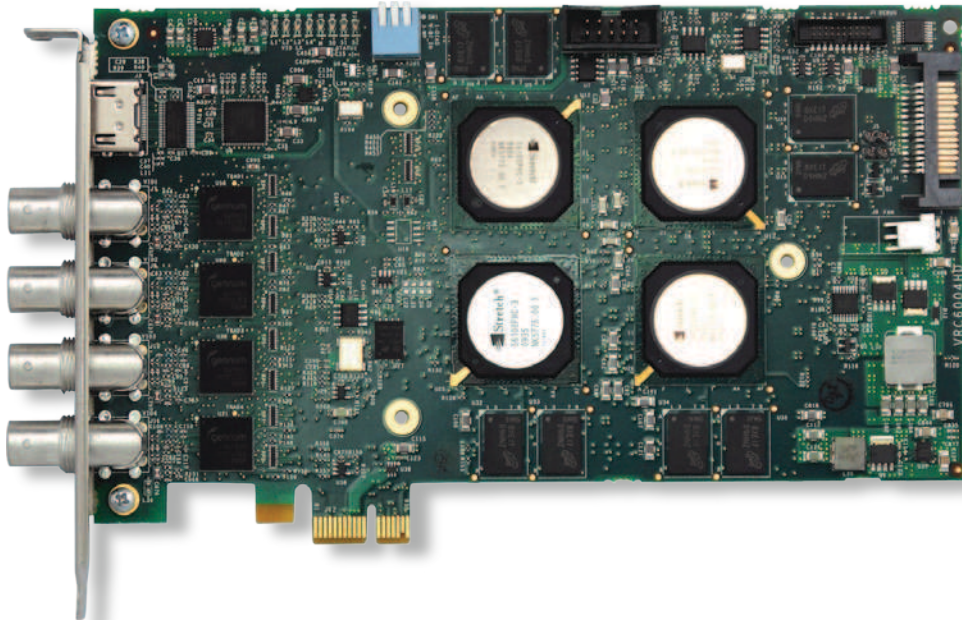




VRC6004HD

High Definition PCIe DVR Add-in Card



Stretch VRC6004HD High Definition PCIe DVR Add-in Card

The Stretch VRC6004HD is a 4-channel high definition PCIe DVR add-in card. Featuring HDcctv technology, the VRC6004HD can interface with HDcctv cameras over conventional coaxial cable at distances of up to 100m. Video inputs are connected to the card through standard BNC connectors on the back panel, which also features an HDMI connector for output to a high definition spot monitor. The card interfaces to the host PC via a 1-lane PCIe interface to support upload of compressed video for storage. The high bandwidth of the PCIe interface also allows for upload of uncompressed data for either high definition host monitor display or for use by host-based video analytics.

The VRC6004HD uses the same Stretch Intelligent Encoder found across the entire portfolio of Stretch DVR reference design kits and OEM add-in cards, and can compress high definition streams at up to 120 frames per second. The card is compatible with all Stretch Intelligent Encoder CODEC plug-ins, including H.264 AVC and the highly versatile Stretch H.264 Scalable Video CODEC (SVC). The video preprocessing engine found on all other VRC6000 Series DVR add-in cards is also present on the VRC6004HD to allow the Intelligent Encoder to dynamically optimize its encode parameters depending upon the characteristics of the scene being recorded.

The VRC6004HD is available as both a production-ready OEM product and a reference design kit. Both variants are supplied with a full software load and all the drivers needed to integrate the card with a host system. The VRC6004HD uses the same Software Development Kit (SDK) as other members of the VRC6000 Series. Sharing the same SDK and application programming interface as other members of the VRC6000 Series ensures compatibility with existing host application software and rapid time to market. The use of HDcctv technology ensures an easy upgrade path from standard definition to high definition cameras using existing coaxial cables.

CODEC plug-ins for the VRC6004HD include H.264 SVC, H.264 AVC, MPEG4, and MJPEG. Video encoded with H.264 SVC can be easily managed over time to reduce its resolution, frame rate, and storage requirements. In this way, the VRC6004HD provides all the immediate benefits of high definition video, while preserving the ability to cost-effectively store a long term video archive.

The high definition PCIe DVR add-in card is also available with a single-lane PCIe interface.

Key Features

- Four-channel high definition input using HDcctv technology
- Full 120 frames per second compression
- H.264 Scalable Video CODEC for maximum flexibility
- Embedded analytics to optimize compression efficiency
- Fully compatible with the Stretch DVR Software Development Kit

The Stretch DVR Software Development Kit features a full firmware load, as well as PC drivers and a complete Application Programming Interface (API). The feature-rich API ensures seamless integration with existing third-party DVR applications and easy access to the card's high definition and scalable video CODEC capabilities. The software-defined architecture eliminates obsolete inventory and allows for rapid field deployment of new features and CODECs.

Key Benefits

- Direct connection to high definition cameras using HDcctv technology
- High definition image clarity and full frame rate encoding
- Multi-CODEC Intelligent Encoding
- Easy integration with existing software for fast time to market

Part Numbers

Evaluation reference design kit:

- 4-lane: HW-EVK-VRC6404HD
- 1-lane: HW-EVK-VRC6004HD

Full reference design kit:

- Includes a non-watermarked version of the Stretch Intelligent Encoder and a distribution license for the supplied CODECs
 - » 4-lane: HW-RDK-VRC6404HD
 - » 1-lane: HW-RDK-VRC6004HD

OEM card:

- Sold in multi-unit packaging with minimum order quantities
 - » 4-lane: VRC6404HD
 - » 1-lane: VRC6004HD