

### Description

The VRC7004HD is an HD-SDI compliant, four channel, single-lane PCIe DVR add-in card. It features two S7100 software configurable processors, and can capture four high definition HD-SDI streams and compress them using the H.264 Advanced Video Codec (AVC) High Profile encoder to produce the surveillance industry's 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.

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 a production-ready OEM unit for volume production and has an Evaluation Kit (EVK) that contains 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.

### FEATURES

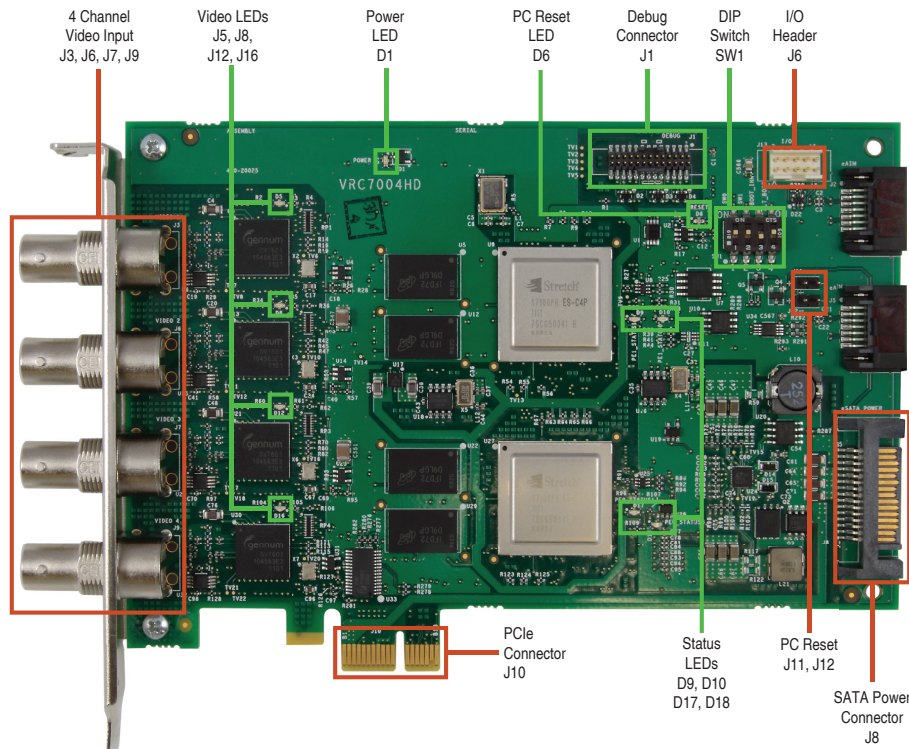
- Four-channel HDcctv capture and compression
- H.264 High Profile Advanced Video Codec (AVC) and Scalable Video Codec (SVC)
- Industry's best video quality
- Compatible with the Stretch DVR Software Development Kit

### 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

### APPLICATIONS

- Professional video surveillance DVR systems
- Professional video surveillance hybrid-NVR systems



## Ordering Information<sup>(1)</sup>

Part Number	Minimum Order Multiple	Description
OEM - VRC7004HD	20	High Definition PCIe DVR Add-in OEM card
EVK-VRC7004HD	-	VRC7004HD Evaluation Kit

**NOTE:**

1. Refer to [www.exar.com/VRC7004HD](http://www.exar.com/VRC7004HD) , for most up-to-date Ordering Information.

Please contact [videotechsupport@exar.com](mailto:videotechsupport@exar.com) to request a complete datasheet.



[www.exar.com](http://www.exar.com)

48720 Kato Road  
Fremont, CA 94538  
USA

Tel.: +1 (510) 668-7000  
Fax: +1 (510) 668-7001  
Email: [videotechsupport@exar.com](mailto:videotechsupport@exar.com)

Exar Corporation reserves the right to make changes to the products contained in this publication in order to improve design, performance or reliability. Exar Corporation conveys no license under any patent or other right and makes no representation that the circuits are free of patent infringement. While the information in this publication has been carefully checked, no responsibility, however, is assumed for inaccuracies.

Exar Corporation does not recommend the use of any of its products in life support applications where the failure or malfunction of the product can reasonably be expected to cause failure of the life support system or to significantly affect its safety or effectiveness. Products are not authorized for use in such applications unless Exar Corporation receives, in writing, assurances to its satisfaction that: (a) the risk of injury or damage has been minimized; (b) the user assumes all such risks; (c) potential liability of Exar Corporation is adequately protected under the circumstances.

Reproduction, in part or whole, without the prior written consent of Exar Corporation is prohibited. Exar, XR and the XR logo are registered trademarks of Exar Corporation. All other trademarks are the property of their respective owners.