

### Description

The VDC7002HDMI is an x1 PCIe, low profile, short form factor, universal decode and display card with two high definition HDMI outputs. Featuring the powerful S7100 software configurable processor, the card is able to decode and display encoded video streams from either Stretch or third-party encoders. CODEC support includes H.264 (Main and High Profile), H.264 Scalable Video CODEC, MPEG4, and MJPEG. The S7100 processor's software-defined architecture ensures that the VDC7002HDMI can be enhanced to decode streams from as yet unreleased encoders with a simple software upgrade.

The VDC7002HDMI can simultaneously decode up to 16 channels of H.264 High Profile encoded video and scale the resulting video streams to fit any user-defined video matrix. Two independent high definition HDMI outputs capable of supplying 1080p or 720p video ensure plug-and-play compatibility with a wide variety of consumer and industrial monitors for the best possible image quality.

The VDC7002HDMI has a high bandwidth PCIe interface for connectivity with host systems. Compressed or raw video data can be transferred over the PCIe bus for decode, scaling, and tiling.

The VDC7002HDMI features Stretch's standard Application Programming Interface (API), ensuring plug and play compatibility with existing Stretch installations and rapid porting of third-party applications.

### FEATURES

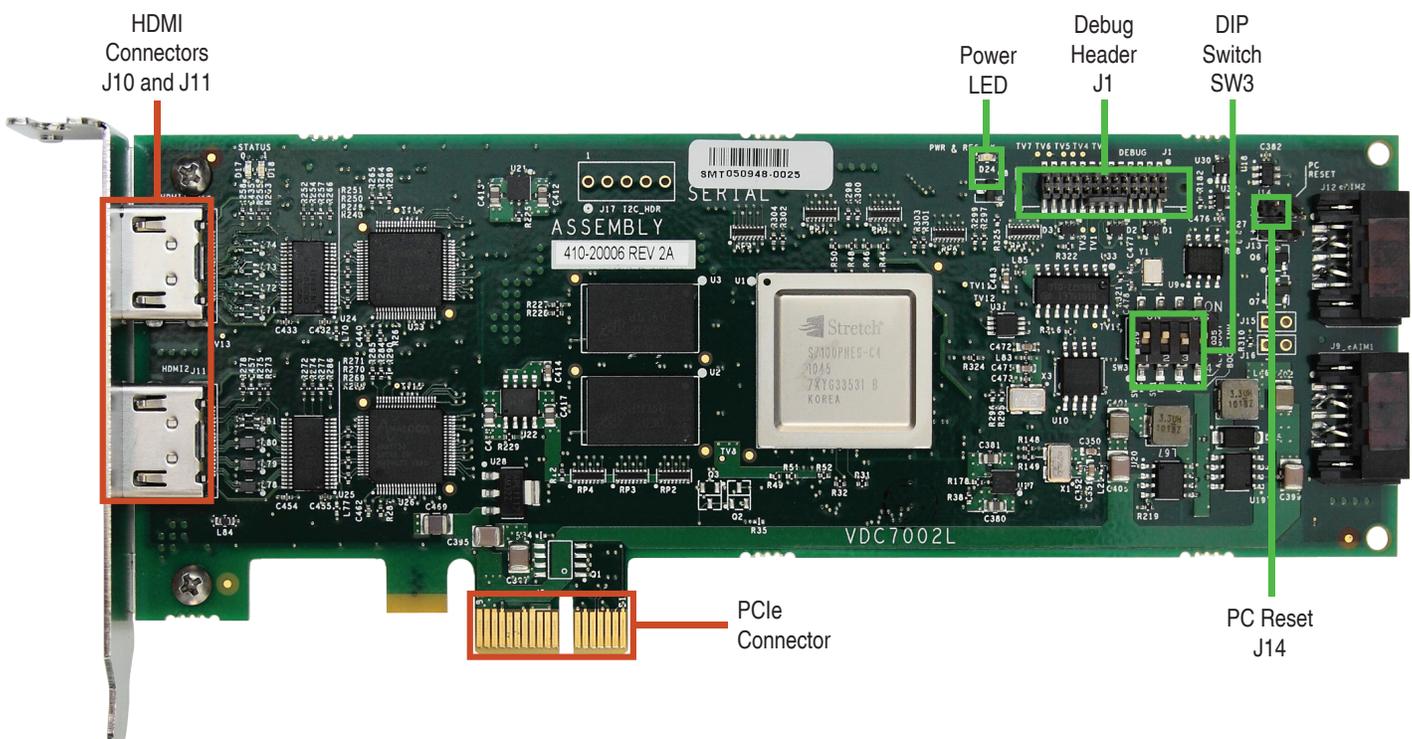
- Multi-CODEC support
- User-defined scaling and tiling
- Dual high definition HDMI outputs

### BENEFITS

- Universal video decode of compressed streams
- Clarity of high definition outputs
- Plug-and-play compatibility

### APPLICATIONS

- Professional video security applications



The VDC7002HDMI is available as a production-ready OEM unit for volume production and can be ordered in either full height or low profile bracket configurations.

The VDC7002HDMI 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 and can be used in either full height or low profile applications.

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

| Part Number         | Minimum Order Multiple | Description                                                       |
|---------------------|------------------------|-------------------------------------------------------------------|
| OEM - VDC7002HDMI-H | 36                     | PCIe Decode and Display OEM low profile card, full height bracket |
| OEM - VDC7002HDMI-L | 36                     | PCIe Decode and Display OEM low profile card, low profile bracket |
| EVK-VDC7002HDMI     | -                      | VDC7002HDMI Evaluation Kit                                        |

### NOTE:

1. Refer to [www.exar.com/VDC7002HDMI-H](http://www.exar.com/VDC7002HDMI-H) , [www.exar.com/VDC7002HDMI-L](http://www.exar.com/VDC7002HDMI-L), for most up-to-date Ordering Information.

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



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