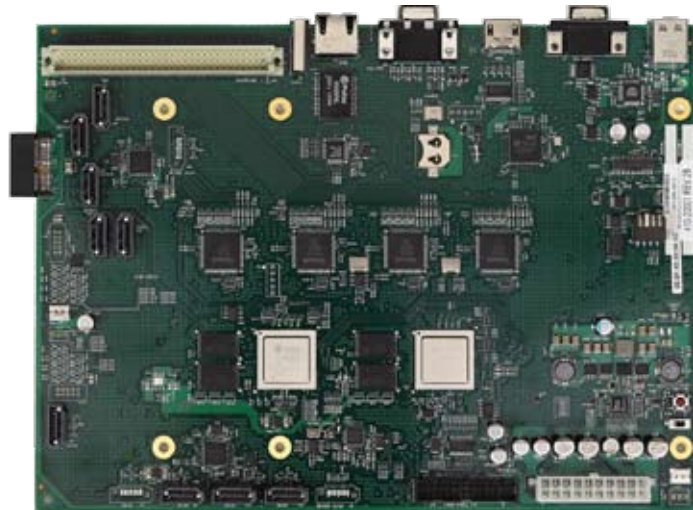




# VRM7016

## Standalone DVR Reference Design



# Stretch VRM7016 Standalone DVR Reference Design

The Stretch VRM7016 is a 16 channel hybrid standalone DVR reference design. It features two S7100 software configurable processors and can encode 16 channels of D1 video while scaling and tiling the video into a user-defined matrix for display. The VRM7016 includes the Stretch Intelligent Encoder and H.264 High Profile CODEC and delivers the surveillance industry's best video quality.

**16 channels of H.264  
High Profile encode**

The software-defined architecture of Stretch processors gives the VRM7016 universal decode capability and ensures that video from any IP camera can be decoded and viewed. A gigabit Ethernet interface gives the VRM7016 true hybrid capability.

**True hybrid capability and  
universal decode**

With its modular design, the VRM7016 can be scaled to meet customer requirements. A variety of display options are available and include an HDMI output for high definition monitors, a VGA output for computer monitors and two CVBS outputs for composite standard definition monitors. Up to ten SATA ports can be populated for local hard disk storage, and USB ports are available to ensure connectivity to a keyboard, mouse, or other local peripherals.

**Scalable modular design**

Customer host application software can be ported directly to the Linux operating system running on the ARM processor embedded in all Stretch S7000 family devices. The VRM7016 features the same Software Development Kit (SDK) found in all Stretch DVR products, ensuring rapid bring-up of host applications and maximum code reuse.

The VRM7016 is available as production-ready OEM units for volume manufacture, or as either Evaluation (EVK) or full Reference Design (RDK) Kits. 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 hardware design files and a distribution license for the supplied software. All kits contain a complete software load for the board, a sample host application, and source code for all included software (the Stretch Intelligent Encoder and CODEC plug-ins are supplied as object code).

## Key Features

- 16 channel encode
- Industry's best video quality
- Scalable design
- Universal decode
- Standard Stretch SDK
- Ten SATA ports, including eSATA

## Key Benefits

- True hybrid capability
- Rich I/O interfaces
- Fast time to market

## Part Numbers

Evaluation Kit – Includes VRM board, 1TB SATA drive, power supply, and rack mount kit with front and back panels

- EVK-VRM7016

Full Reference Design Kit – Includes everything in an EVK, plus a non-watermarked version of the Stretch Intelligent Encoder and a distribution license for all supplied CODECs

- RDK-VRM7016

OEM Units – Includes only VRM board; sold in multiple-unit packaging

- OEM-VRM7016

