

# VRM7008

## Standalone DVR Reference Design



# Stretch VRM7008 Standalone DVR Reference Design

The Stretch VRM7008 is an eight channel standalone DVR reference design kit. Powered by a single Stretch S7110 software configurable processor, the VRM7008 can capture, compress, and store eight channels of D1 video at full frame rate. The S7110's integrated ARM9 processor provides the processing requirements for system control, so there is no need for an external host processor. A Linux operating system running on the ARM processor ensures rapid porting of host application software. The VRM7008 sets a new price performance point for the surveillance industry and is ideal for high performance, cost-conscious applications.

**D1 resolution video for the price of CIF**

The VRM7008 has an ultra-compact form factor and is ideal for space-constrained applications. It has an integrated back panel and connectors for 8 video and 4 audio inputs, removing the need for additional circuit boards or cables. Dual USB connectors and an RJ45 Ethernet port ensure connectivity for both user input and connection to high speed networks for remote viewing or backup. A VGA video output and an embedded SATA connector help make the VRM7008 a self-contained, single board DVR solution.

**Self-contained, single board DVR solution**

The VRM7008 reference design kit features the Stretch Intelligent Encoder, and includes both the Stretch H.264 High Profile and H.264 Scalable Video (SVC) CODECs. The Stretch H.264 High Profile CODEC produces the industry's best video quality or, at equivalent quality levels, can produce streams at one-half the bit rate of competing products. This reduces storage requirements and slashes operating costs. The Stretch H.264 Scalable Video CODEC produces compressed streams that can be progressively decoded to produce video at different frame rates and

resolutions, allowing the streams to be accessible over congested or bandwidth-limited networks. The VRM7008 is compatible with the same software development kit (SDK) used across all Stretch products and reference designs, ensuring rapid software development, fast time to market and maximum code reuse.

**The industry's best video quality**

The VRM7008 reference design is available as an Evaluation Kit (EVK) or in high volume to OEMs in multi-unit packaging. EVKs are intended for evaluation purposes and produce watermarked streams. They contain a full software load, a sample host application, and source code for the included software.

## Key Features

- 8 channels encode
- Small form factor
- H.264 HP and SVC compression

## Key Benefits

- Low system cost
- Industry's best video quality
- Fast time to market

## Part Numbers

Evaluation Kit

- EVK-VRM7008

OEM Units

- OEM-VRM7008

