



## Shavano 4K HEVC Encoder

- ▶ First small form factor, affordable, real-time encoder supporting resolutions up to 4K with HEVC and H.264 encoding, all while being a PoE device.
- ▶ Efficient encoding leads to bandwidth savings, even at high resolutions.
- ▶ Ideal for future-proofing workflows that need to move to 4K UHD and for those that require the highest video quality.



## A true first.

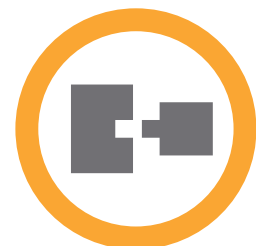
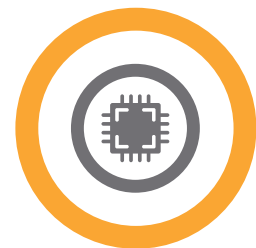
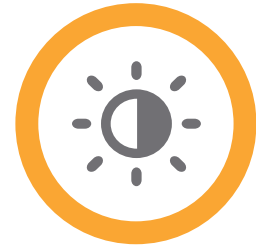
Bringing together 4K resolution and HEVC compression, this encoder gives you the video quality you need while saving bandwidth. Videon's Shavano 4K HEVC encoder offers a small form factor and amazing price point, bringing the world of 4K encoding under \$2K. Better yet, it just works. One-button streaming, a simple web user interface, and a supportive Customer Care team make it simple to use. Whether you're streaming for the first time or integrating into an existing workflow, this is the encoder for you.

## Save bandwidth at all resolutions with HEVC.

With HEVC compression technology, you'll be saving bandwidth no matter the resolution you're using. With full-featured support for high definition and even standard definition video, the Shavano 4K HEVC encoder can fit into your current setup and futureproof you for when the 4K need hits.

## Across a range of AV markets.

Videon has unique partnerships that let vertical markets and individual consumers access hardware that's usually only available to the biggest consumer electronics OEMs. Built on the Qualcomm Snapdragon 820 dedicated media processor, this encoder uses the same technology that is in millions of cell phones and set-top boxes. That's how we manage to keep it small, light and affordable--while guaranteeing quality.



## Why Videon?

Videon has outstanding products, but we're about more than technology. Our Customer Care team promises:

- ▶ Connection with a dedicated account representative
- ▶ Quick turnaround for technical support inquiries
- ▶ Operational excellence to ensure that customer service is our best product

## Shavano 4K HEVC Encoder

- ▶ First small form factor, affordable, real time UHD encoder.
- ▶ Based on Qualcomm Snapdragon 820, dedicated quad core AV processor.
- ▶ 4K video resolution ideal for applications that require high video quality: sports, broadcast, medical, live events.
- ▶ Reduce bandwidth consumption with efficient, high-quality HEVC compression technology.



## Product Specifications

### Video Encoding

- ▶ Quad Core Qualcomm Snapdragon 820 (APQ8096) processor
- ▶ Input Resolutions
  - | **3840x2160**p30, p29.97, p25, p24, p23.98; **1080**p60, p59.94, p50, p30, p29.97, p25; **720**p60, p59.94, p50; **576**p50; **480**p60, p59.94
- ▶ Encode Resolutions
  - | **3840x2160**p30, p29.97, p25, p24, p23.98; **1080**p60, p59.94, p50, p30, p29.97, p25; **720**p60, p59.94, p50; **576**p50; **540**p\*; **480**p60, p59.94; **360**p\*; **270**p\*; **180**p\*;
  - \*scaled resolutions, frame rate same as source
- ▶ Compression: H.265/HEVC (up to 4Kp30), H.264
- ▶ Bit rates: .5Mbps-30Mbps; Rate control: Variable, Constant

### Audio Encoding

- ▶ Encode: MPEG-4 AAC-LC in ADTS 64-320kbps
- ▶ Encode Sampling Freq: 32, 44.1, 48KHz

### Streaming Capabilities

- ▶ Unicast and Multicast
  - | RTP over UDP, Raw UDP
  - | Up to 2x Unicast, 1x Multicast, and 1x RTMP simultaneous channel output
- ▶ RTMP
- ▶ RTSP

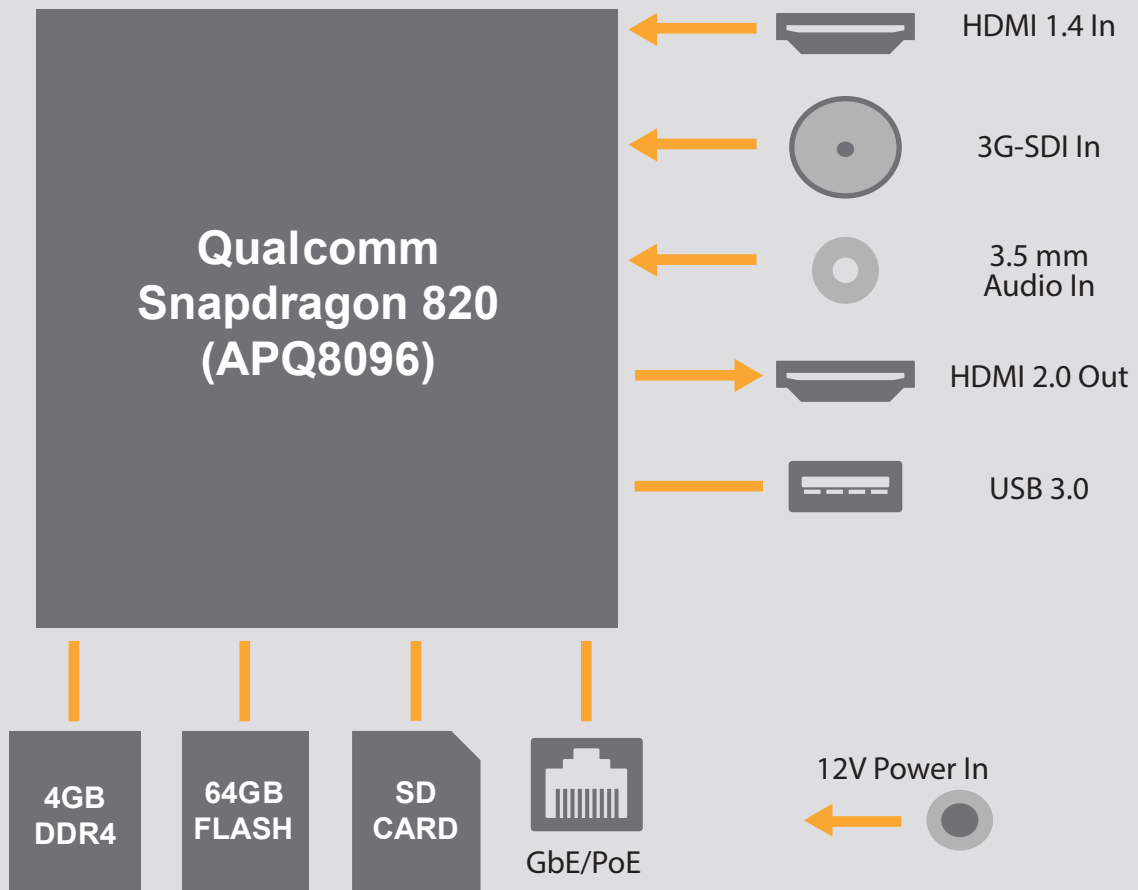
### I/O

- ▶ HDMI 1.4 input up to 2160p30
- ▶ 3G-SDI input up to 1080p60
- ▶ USB 3.0 interface
- ▶ Audio embedded in HDMI and 3G-SDI and 3.5mm Analog Audio input
- ▶ 10/100/1000 Ethernet (RJ-45)

### Network and Control

- ▶ REST API integrates with third-party controllers and applications
- ▶ Full-featured web browser based UI
  - | Designed for tablets and desktops
  - | Encoder configuration for unicast, multicast, RTMP and RTSP
- ▶ DHCP (Default) / Static IP Address
- ▶ Command and Control: HTTP
- ▶ Auto-detect and discover other Videon devices on subnet

| [Block Diagram and Ordering Information](#)



### General

- ▶ +12V Input; under 10 Watts total (not including external peripheral)
- ▶ IEEE802.3af Power over Ethernet
- ▶ Dimensions: 1.5" x 5.0" x 4.234"
- ▶ Action Button to start/stop RTMP encoding and for Factory Reset

### Applications

- ▶ IP Encoder for Streaming Events
- ▶ Point to Point or RTMP/RTSP Encode for Broadcasters

### Customer Care Promise

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