Sonora HD H.264 Encoder/Decoder

► Affordable streaming encoder/decoder based on one of the most trusted names in silicon: the Intel® Atom™ media processor

► Simple HDMI input for streaming online or point to point, recording to USB and automatic uploading

► Ideally suited for AV installations including classrooms, corporate settings, sports, and houses of worship
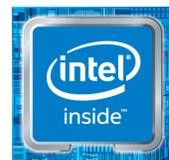
The best value.

You don't have to pay exorbitant prices to get a professional-grade product.

- ► Supports multiple streaming formats including RTMP, unicast and multicast (point to point).
- ► Streams can be distributed live, recorded to USB, and uploaded online simultaneously.
- ► Accepts resolutions up to 1080p30, giving you high definition H.264 video encode for HDMI inputs.
- ► Easy to use, with a web UI and straightforward setup process.

Built on trusted silicon.

Videon has unique partnerships that give you access to the best silicon technology. Usually reserved for only the biggest consumer electronics OEMs, the Intel® Atom™ CE5300 is a high-quality Dual Core 1.2GHz media processor. With Intel, you know you're getting a quality product.

Across a range of AV markets.

Designed specifically for applications where affordability is important, this product fits into a variety of AV workflows. Perfect for classrooms, houses of worship, sports and other installations where you need a full-featured, reliable product without spending a lot.
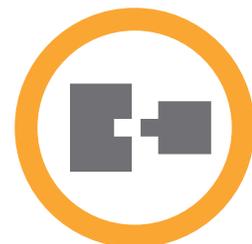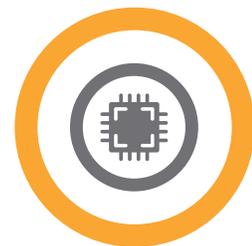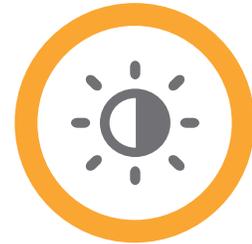
Sonora HD H.264 Encoder/Decoder

► Easily stream AV over IP for houses of worship, live events, sports and education.

► Flexible data paths move content from any source to any screen.

► Based on Intel® Atom™ CE5300 media processor.

Product Specifications

Video Encoding/Decoding

► Dual Core 1.2GHz Intel® Atom™ Processor

► Input Resolutions
  | **1080**p30, p60 conv. to p30, p59.94 conv. to p29.97, p30, p29.97, p25, i60, i59.94, i50; **720**p60, p59.94, p50

► Output Resolutions
  | **1080**p60, p59.94, p50, p30, p29.97, p24, p23.98, i60, i59.94, i50, ; **720**p60, p59.94, p50; **576**p50, i50; **480**p59.94, i59.94

► Compression: H.264, Baseline, Main, High

► Bit rates: 250kbps-20Mbps; Rate control: VBR, CBR

► Transcode (e.g. 1080p60 input to 720p60 scaled output); limit 30 frames per second

► Encode latency ~1sec; Decode latency ~250ms

Audio Encoding/Decoding

► Encode: MPEG-4 AAC-LC in ADTS 64-320kbps; Decode: MPEG-1- Layer 2, MPEG-2/MPEG-4 AAC in ADTS/LOAS

► Encode Sampling Freq: 32, 44.1, 48KHz; Decode: 48 KHz

I/O

► Video: HDMI v1.4a input and output

► 2 USB 2.0 connectors

► Audio embedded in HDMI

► 3.5mm Analog Audio input

► 10/100/1000 Ethernet (RJ-45)

Streaming Capabilities

► Unicast and Multicast
  | RTP over UDP, Raw UDP
  | Up to 2x Unicast and 1x Multicast simultaneous channel output

► RTMP: Wowza™, UStream, YouTube Live, EvoStream, DaCast

Network and Control

► REST API integrates with third-party controllers and applications

► Full-featured web browser based UI
  | Designed for tablets and desktops
  | Encoder and decoder configuration for unicast, multicast and RTMP

► DHCP (Default) / Static IP Address

► Command and Control: HTTP

► Auto-detect and discover other Videon encoder and decoder units on subnet, including:
  | Greylock HD H.264 Encoder/Decoder
  | Washington HD H.264 Decoder
  | And other Sonora units

| Block Diagram and Ordering Information

Intel® Atom™ Media Processor CE5300

HDMI 1.4 Input

HDMI 1.4 Output

3.5mm Audio Input

RGMII

Gbe PHY

USB 2.0

USB 2.0

1GB DDR3

4GB eMMC

Stream & Reset Button

12V
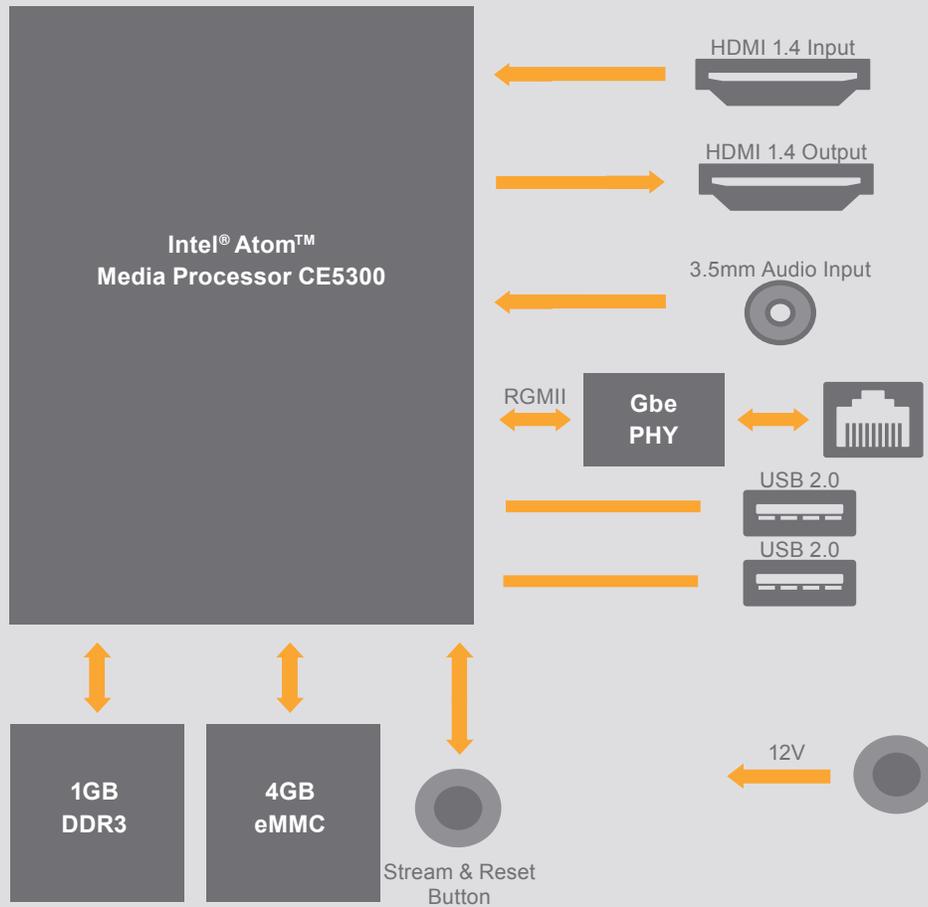
General

▶ +12V Input; under 15 Watts total

▶ Dimensions: 1.75" x 6.54" x 6.2"

▶ Action Button to start/stop RTMP encoding and for Factory Reset

Applications

▶ IP Encoder for Streaming Events / Houses of Worship

▶ Lecture Capture Encoder

▶ Digital Signage Appliance

Customer Care Promise

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

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VideoLink™ INC.