

UHD HEVC Monitoring Decoder

AG 9000



Preliminary Information
Subject to Change



OVERVIEW

The Sencore AG 9000 Distribution Monitoring Decoder provides HEVC 4k decoding for monitoring real-time linear distribution video feeds. Based on ASIC technology, the AG 9000 provides low power usage, reasonable cost, and high density.

The card can be used in any Ross openGear® frame and up to 20 channels can be deployed in 2RU, saving rackspace in typically tight NOC and video wall situations. It can be deployed alongside other Sencore openGear® decoders such as the MRD 5800 4:2:2 H.264 L-band Receiver.

Delivering either full resolution, full bandwidth 2160p 10-bit output via HDMI 2.0 or down-converted 1080p50/60 video via 3G-SDI, the AG 9000 decodes video services up to 80 Mbps to baseband for confidence monitoring or lab playback.

APPLICATIONS

- **UHD Linear Distribution Monitoring**
Real-time decoding of live, linear UHD broadcasts for display on video walls for confidence monitoring
- **Quality Check for Video on Demand**
Couple the 4k decoder with a Sencore stream playback solution and broadcast monitor for asset spot-checks
- **Lab Decoding of HEVC 4k Content**
HDMI or downscaled 3G-SDI outputs for lab playback

SPECIFICATIONS

TRANSPORT STREAM INPUT

| | |
|-----------------|--------------------------|
| Connector Type: | RJ45 10/100/1000 |
| IP Formats: | UDP or RTP, FEC (Future) |
| Containers: | MPEG-2 TS or MPEG-DASH |
| Addressing: | Unicast or Multicast |

DECODING CAPABILITY

| | |
|-------------------------|--|
| Video CODEC Support: | HEVC 4:2:0 10-bit to 2160p60 H.264 4:2:0 8-bit to 1080p60* (UHD for single slice encode) MPEG2 4:2:0 to 1080i60 |
| Video Bitrate: | Up to 80 Mbps |
| Audio Decoding: | 1x Audio PID |
| Audio CODEC Support: | MPEG, AAC, AC-3, EAC-3 |
| Ancillary Data Support: | Closed Caption and Subtitle Overlay/Pass-Thru (Future) |

BASEBAND OUTPUT

| | |
|------------------|--|
| Connector Types: | HDMI 2.0 Output to 4k UHD 3G-SDI Output to 1080p60 |
| Audio Support: | 1x Pair of Decoded Audio Embedded in SDI Transmitted on HDMI |
| Ancillary Data: | HDR Messaging (Future) |

MANAGEMENT

| | |
|------------------|---------------|
| Protocols: | HTTP and SNMP |
| Connector: | RJ-45 10/100 |
| User Interfaces: | Web GUI |

FORM FACTOR

| | |
|---------------|---|
| Card Type: | openGear 3.0 Chassis |
| Card Density: | 20 Cards per 2RU Frame |
| Frame Power: | Dual, hot-swappable, redundant available |