

# VEGA-8301D

## 8Kp60 HEVC Contribution Video Decoder

Preliminary



### Features

- 8Kp60 HEVC contribution grade decode platform
- 1U 20" deep short depth unit
- Telco-grade robustness and security
- Live input via HLS or RTP streaming protocols across IP
- HEVC/H.265 8Kp60 Level 5.1 Decoding and Playback
- 4:2:2 sampling & 10-bit color & up to 250Mbps
- 4-ch SDI-12G outputs with 22.2-ch audio support
- HDR signalling supported

### Introduction

The VEGA-8301D is a fully integrated 8Kp60 live HEVC contribution decoder with Spin Player software included, complementing the full capability of the VEGA-8300E 8K Encoder up to 250Mbps and supporting decode and playout of 8Kp60 10bit 4:2:2 with HDR output. The unit is ready to use out of the box, featuring a 4 x SDI-12G 8K live video output. The appliance can be used to create low latency point to point link or a point to multipoint distribution network, and can support worse than usual thermal environments due to its telco grade underpinning.

### Specification

Video Decode Capability	Standard	HEVC (H.265)
	HEVC profile	Main / Main 10
	HEVC Tier	Main / High
	HEVC Level	HEVC Level 5.1
	Bitrate 8K format	Up to 250Mbps
	Bit Depth	10 bit
Audio	Channels	22.2
	Format	Input: AAC, AAC-LC Output: PCM
	Sampling Frequency	48KHz
	Connector	SDI Audio
Video output	Channels/Interface	4 x 12G-SDI, up to 8K60p, 8bit/10bit, YUV
	SDI Video formats	8K/ 7680 x 4320: 60p / 59.94p / 50p / 30p / 29.97p / 25p / 24p
IO	Front IO	Option1 (Default): 1 x PWR button, 1 x ID button, 1 x USB3.0/2.0, 1 x microUSB console, 5 x LEDs (Power, ID, 3x SW definable) Option2: 1 x PWR button, 1 x ID button, 1 x RJ45 console, 5 x LEDs (Power, ID, 3x SW definable)
	Rear IO	2 x GbE LAN RJ45, 1x Display port, 2x USB3.0/2.0, 2x 10GE SFP+, 2x hole ground lug
Ethernet	Gigabit Ethernet Interface	10/100/1000 Mbps
	10 Gigabit Ethernet Interface	1Gbps / 10Gbps
	Controller	GbE LAN1: Intel I210-AT, GbE LAN2: Intel I210-AT
	Connector	10GbE SFP+ LAN1/2: Integrated into PCH, with SR-IOV and RDMA support
Power Supply	Power Rating	700W red. AC PSU / 600W red. DC PSU
	Input	(AC) 100-240Vac, 9-4A, 50-60Hz (DC) -44 - -65Vdc, 18-10A
Environment	Humidity Operational (non-condensing)	50% @ 25 °C to 95% @ 40 °C
	Operational Temperature	0°C (32°F) to 40°C (104°F), optional -5°C (23°F) to 55°C (131°F) with Intel high Tcase processor installed
	Storage Temperature	-40 °C (-40 °F) to 70 °C (158 °F)
Cooling	Chassis Fan	Five 40 x 56 mm front replaceable, hot swappable fans
	Thermal Control	Two separate thermal zones for motherboard and FL PCIe cards
	Reliability	Resilient to single fan failure
	Air Filter	Front replaceable
System Management	Advantech BMC	Aspeed AST2500 BMC
		Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM Support Configurable shared or dedicated NIC support
Physical	Dimension (W x D x H)	438.00 x 506.20 x 44.20 mm (17.24" x 19.93" x 1.74")
	Weight (N.W.)	15kg
	Security	Lockable front bezel and chassis intrusion sensor

### Ordering Information

Part Number	Description
VEGA-8301D-SODO	8Kp60 HEVC Contribution Video Decoder