

VEGA-6000

VEGA-6000 UHD Live Video Streamer

NEW



Features

- Video Processing Performance: up to single 4Kp60 AVC/HEVC Encode/Decode
- I B P-frame, 4:2:0 and 4:2:2 sampling, 8/10-bit color pixel depth
- SDI bi-directional interfaces: 1x 12G-SDI & 3x 3G-SDI
- HDMI interface: 2x HDMI2.0 input (optional)
- Streaming over Ethernet: SRT, RTSP, RTP, NDI
- SCTE 104 to SCTE 35 Conversion
- Linux Drivers and SDK
- Power: Dual 12V DC Input/15W & Single 12V DC Input (Optional)

Introduction

VEGA-6000 is designed for professional video streamer, offering real-time 4Kp60 AVC/HEVC encoding and decoding. It supports I, B, and P-frame compression, 4:2:0 and 4:2:2 chroma subsampling, and 8/10-bit color pixel depth, ensuring superior video quality for broadcasting, streaming, and content distribution.

VEGA-6000 provides bi-directional SDI interfaces, including 1x 12G-SDI and 3x 3G-SDI, enabling seamless integration with professional video equipment. Additionally, it supports 2x HDMI 2.0 input (optional) for flexible video input options.

For efficient streaming, VEGA-6000 includes support for SRT, RTSP, RTP, and NDI, ensuring low-latency, high-quality video transmission over Ethernet. It also features SCTE 104 to SCTE 35 conversion, allowing precise ad insertion and broadcast automation.

VEGA-6000 is Linux-based, with dedicated drivers and SDK, providing developers with a powerful and customizable video processing solution. Its compact design (210mm x 140mm x 40mm) allows for easy integration into various environments.

With dual 12V DC input (15W) and optional single 12V DC input, VEGA-6000 ensures power redundancy for reliable operation. This is an ideal solution for professional broadcasting, live streaming, and video production.

Specifications

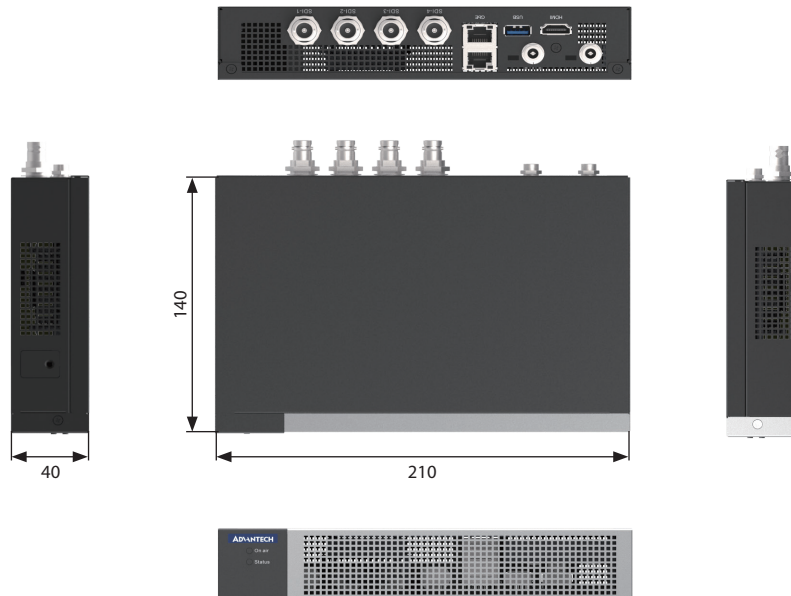
| Item | | 4x 12G/3G-SDI + Dual DC |
|-----------|----------|---|
| Interface | Input | 12G-SDI x 1 Shared with Quad-Link 3G-SDI + 3G-SDI x 3 (BNC type) 12G-SDI channel: 1ch (up to 4Kp60, 10b, 4:2:2, YCbCr) 3G-SDI channel: 3ch (up to 1080p60, 10b, 4:2:2, YCbCr) Audio: SDI embedded audio |
| | Output | 12G-SDI x 1 (BNC type) + 3G-SDI x 3 12G-SDI channel: 1ch (up to 4Kp60, 10b, 4:2:2, YCbCr) 3G-SDI channel: 3ch (up to 1080p60, 10b, 4:2:2, YCbCr) HDMI1.4 (Preview: 1080p as default) Gigabit Ethernet x2 (10 /100 /1000Mbps) USB3.0 x1 |
| Encoding | Video | Resolution: 1ch: 3840 x 2160 pixel or 4ch: 1920 x 1080 pixel lower resolution Framerate: 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p (HEVC/AVC) & 60i, 59.94i, 50i (HEVC) Pixel format: 8b /10b 4:2:2, 4:2:0 Encoding format: HEVC/AVC Bitrate: 3Mbps – 80Mbps Rate control: CBR /VBR Support embedded HDR parameters |
| | Audio | Encoding format: AAC_LC, HE-AAC-V1, HE-AAC-V2 Channel: 8ch/per SDI |
| Decoding | Video | Resolution: 1ch: 3840 x 2160 pixel or 4ch: 1920 x 1080 pixel lower resolution Framerate: 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p (HEVC/AVC) & 60i, 59.94i, 50i (HEVC) Pixel format: 8b /10b 4:2:2, 4:2:0 Decoding format: HEVC/AVC Bitrate: 3Mbps – 80Mbps Rate control: CBR /VBR Support embedded HDR parameters |
| | Audio | Decoding format: AAC_LC, HE-AAC-V1, HE-AAC-V2 Sampling Frequency: 44.1KHz, 48KHz |
| Streaming | Protocol | SRT/NDI/RTSP/RTP |

Specifications (Cont.)

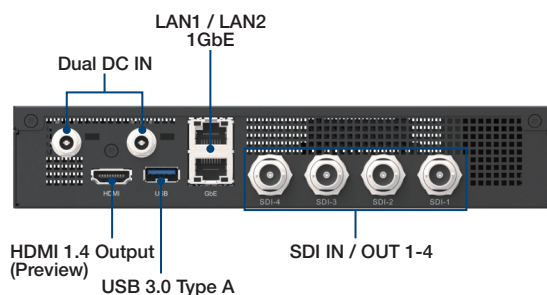
| | | |
|-----------------------|-------------------------------|---|
| Software Features | Operating system | Linux (64-bit) |
| | Conversion | SCTE 104 to SCTE 35 Conversion support for encoding SCTE 35 to SCTE 104 Conversion support for decoding |
| | Management | Web User Interface |
| | System Monitor | Video input status, Streaming status and Ethernet usage |
| | Preview | SDI to HDMI Preview (choose 1 from 4) |
| Chassis | Front I/O LED | On Air : Red: Warning message / Green: Normal Status: ENC: Red: Stream out / Green: Idle DEC: Red: Stream in / Green: Idle |
| | Dimension | 140mm(L) x 210mm(W) x 40mm(H) 5.51in(L) x 8.27in(W) x 1.57in(H) |
| | Power Consumption | Dual DC-in, Max power 18W |
| | Power Input | 12V === 3A (36W) |
| | Weight | 1.5Kg |
| Operating Temperature | 0 to 45 °C | |
| Storage Temperature | -40 to 70 °C | |
| Operating Humidity | 95% RH @40 °C, non-condensing | |
| Storage Humidity | 95% RH @60 °C, non-condensing | |
| Certification | CE/FCC (Class A)/UL/CB/RoHS | |

Dimensions

Unit: mm



I/O Interface (4x SDI + Dual DC)



Order Information

| Part Number | Description |
|---------------|---------------------------------------|
| VEGA-6000-E01 | VEGA-6000 Encoder w/ 4x SDI + Dual DC |

* Please ensure you confirm specifications prior to making a purchase. This document serves as a reference and informational resource only. Please be aware that all product specifications are subject to change without prior notice.