



Advantech **VEGA** Video Solutions

4K HEVC ENCODE IN < 15W



VEGA-3300



VEGA-3301



VEGA-3310



VEGA-3311

Powered by

Advantech VEGA 3300 Series

Real-Time UHD Encoder, Decoder & Transcoder Cards

Advantech VEGA-33xx encoder, decoder and transcoder cards enable real-time, professional-grade HEVC video processing at up to 20x less power consumption than a software-only solution. These low power PCI Express add-on cards can deliver unrivaled video processing capability to IT-based infrastructure platforms, allowing servers to do more of what they are good at, and significantly reducing power, cost and footprint of high-density solutions. Advantech's compact plug-in accelerators provide video equipment manufacturers with the required technology to accelerate the heavy-lifting parts of the workflow without otherwise losing capacity or adding more servers, helping them successfully address the challenges of UHD video processing in a cost-effective manner.



Video Formats	Up to 4Kp60		Up to 4Kp120	Up to 4Kp60
Video Inputs	N/A	4-ch 3G-SDI / HDMI 2.0 / DP 1.2	N/A	1-ch 12G-SDI / 4-ch 3G-SDI / HDMI 2.0 (Optional)
Video Compression	H.265	H.265	H.265 / H.264 / MPEG-2	H.265 / H.264 / MPEG-2
HEVC Profile	Main 10 4:2:2 10-bit			
Video Decode	N/A	N/A	H.265 / H.264 / MPEG-2	H.265 / H.264 / MPEG-2
Additional Video Processing Capabilities	N/A	N/A	Pre-processing, Scaling & Transcoding	Pre-processing & Scaling
IP Media Interfaces	N/A	N/A	N/A	Support for SMPTE 2022-5/-6/-7 SMPTE 2059 & optional Sony LLVC or TICO compression
Network Ports	N/A	N/A	N/A	2x 10GbE (optional)
Development Environment	Linux & Windows SDK / FFmpeg Plug-in			
Power Consumption	< 15W	< 35W	< 35W	< 35W
Format	Half-Length, Half-Height PCIe	Half-Length, Full-Height PCIe		