

ADVANTECH

Advantech **VEGA** Video Solutions



**ACCELERATING
VIDEO INNOVATION**

**VIDEO
INTELLIGENCE**



VEGA-4000



VEGA-4001

Powered by

**Powered by Advantech VEGA-4000 Series
Video Content Analysis and Classification**

www.video-acceleration.com

VEGA-4000 Series for Video Content Analysis (Xilinx Virtex UltraScale+ based Machine Learning)

As user-generated video content becomes more and more pervasive, there is a corresponding service demand to analyze and classify this content in real time to ensure compliance to rules and to allow further innovative applications to be developed. Advantech's new VEGA-4000 series of reconfigurable video accelerators can address this need with the development environment and hardware assist necessary for deploying advanced and efficient neural networks, machine learning algorithms and creative video analysis applications.

VEGA-4000/4001

VEGA-4000 and VEGA-4001 are deployment-ready PCI Express adapters supporting Xilinx SDAccel and Yolo/Darknet based applications in both Linux and Windows-powered servers. Preliminary features include:



VEGA-4000

- Xilinx Virtex UltraScale+ XCVU9P FPGA
- 4-ch of 4GB DDR4-2400 64b w/ ECC
- PCIe Gen-3 x16 Low-Profile form-factor
- Up to 75W power consumption with fanless or fan-assisted heatsinks



VEGA-4001

- 2 x Xilinx Virtex UltraScale+ XCVU9P FPGA
- 4-ch of 4GB DDR4-2400 64b w/ ECC per device
- PCIe Gen-3 x16 Full height, GPU length form-factor
- Up to 150W power consumption with fanless (dual slot) or fan-assisted (single slot) heatsinks