

# VEGA-7030E

## 1U High Density Media Server for Live Streaming Processing



### Features

- Short Depth 1RU x 19" Server Platform
- Intel 14th Raptor Lake-S Refresh Desktop Processor with Intel UHD Graphic Functionality and Intel Quick Sync Video Support
- Two PCI Express Card Slots for I/O and Accelerators
- Four Gigabit Ethernet Network Ports
- Front Panel LCD Display, Keypad

### Introduction

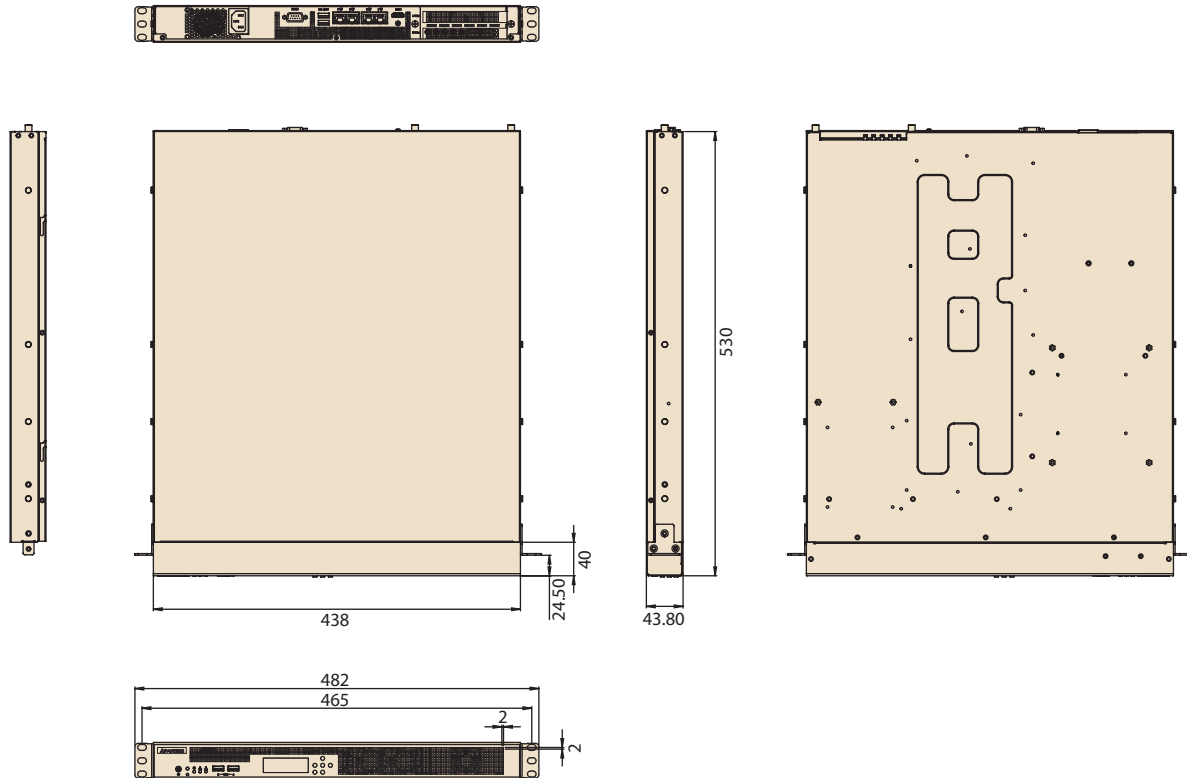
The VEGA-7030E is a highly configurable, 1U, short-depth video applications server based on the Intel 14th Core family of desktop processors (also known as Raptor Lake-S Refresh). Supporting up to 24 CPU cores with on-board Intel UHD Graphics and Quick Sync Video functionality, the VEGA-7030E offers plenty of processing power for many software video workflows while its class-leading two PCI Express slots provide high flexibility to fit a wide range of video accelerators or video I/O cards such as the Advantech VEGA 4K and 8K encoding cards. VEGA-7030E is ready for integration into streaming networks with three 2.5Gigabit and one Gigabit Ethernet connections and can support latest generation protocols like SRT. It has the look and feel of an appliance with user-programmable front panel LCD and keypad, but inside this is a reliable server architecture with dual NVMe storages, and options for BMC-based remote management and secure TPM feature. The short depth, high temperature operation makes VEGA-7030E especially suitable for video edge or field installations as well as equipment cabinets. VEGA-7030E can be supplied as an application ready platform with a range of accelerator options from 4K or 8K 4:2:2 HEVC capture and encode cards to high performance FPGA and multi-channel transcoders with Linux and Windows software packages that streamline product development and shortens time-to-market for the latest generation of OEM video requirements.

### Specifications

System type		1U Media Server With Appliance Look and Feel
Processor System	CPU Type	Intel® 12 <sup>th</sup> /13 <sup>th</sup> /14 <sup>th</sup> Generation Core™ i3/i5/i7/i9 (TDP up to 65W)
	Socket Reference	FCLGA1700 (Raptor Lake-S Refresh)
	Intel PCH chipset	Q670 (W680 Optional)
Graphics	Embedded Controller	Intel UHD Graphics
Memory	Memory channels	2 channels DDR5 ECC/Non-ECC Up to 5600 MHz DIMM
	Max. Capacity	64GB (2 x 32GB)
Storage	M.2 NVME	2 x M.2 2280
	SATA	1 x 3.5" HDD or 1 x 2.5" SSD (Optional)
Physical Characteristics	Rackmount/Tabletop/Others	1U Rackmount
	Height x Width x Depth	44 x 438 x 530 mm
Power Supply	System PSU	ATX 500W Power Supplier
PCIe Expansion Slots	PCIe slot qty for Add on card	2 x PCIe Gen 4 x8 FH/FL (x8 + x8 physical) or 1 x PCIe Gen 3 x16 FH/FL (optional)
Networking	Interface	10/100/1000/2500 Mbps
	Controller	GbE LAN2: Intel® I210; 2.5GbE LAN 1,3,4: Intel I226LM
	Connector	RJ-45 x 4
Front I/O Interface	USB	2 x USB3.2 GEN1 ports
	LCM	1 (Optional)
	LED	3 x LEDs (Power, HW Fault, Alarm)
Rear I/O Interface	GbE RJ-45	3 x 2.5GbE ports, 1 x GbE port
	HDMI Port	1 x HDMI 2.0 (Resolution up to 4096 x 2160 @ 60 Hz)
	Serial port	1 x DB9 in rear side (Optional)
	USB	2 x USB3.2 GEN2 ports
Security	TPM	TPM2.0
System Management	BMC	Aspeed AST2600 BMC (Optional)
Environment	Humidity operational (non-condensing)	10 ~ 85% @ 40 °C non-condensing
	Storage	-20 to 70 °C
	Humidity Storage	5% to 95% RH
	RoHS6 Compliant	RoHS 5/6
Operation Temperature	0 to 45 °C	

## Dimensions

Unit: mm [inch]



## Ordering Information

Part Number	Description
VEGA-7030E-0A00E	VEGA-7030E Raptor Lake-S Single PSU STD BMC Server