

VEGA-7030

1U High Density Media Server for Accelerated Video 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
- Four PCI Express Card Slots for I/O and Accelerators
- Four Gigabit Ethernet Network Ports
- Front Panel LCD Display, Keypad, and Confidence Monitor
- Flexible storage options
- Redundant Power Supplies

Introduction

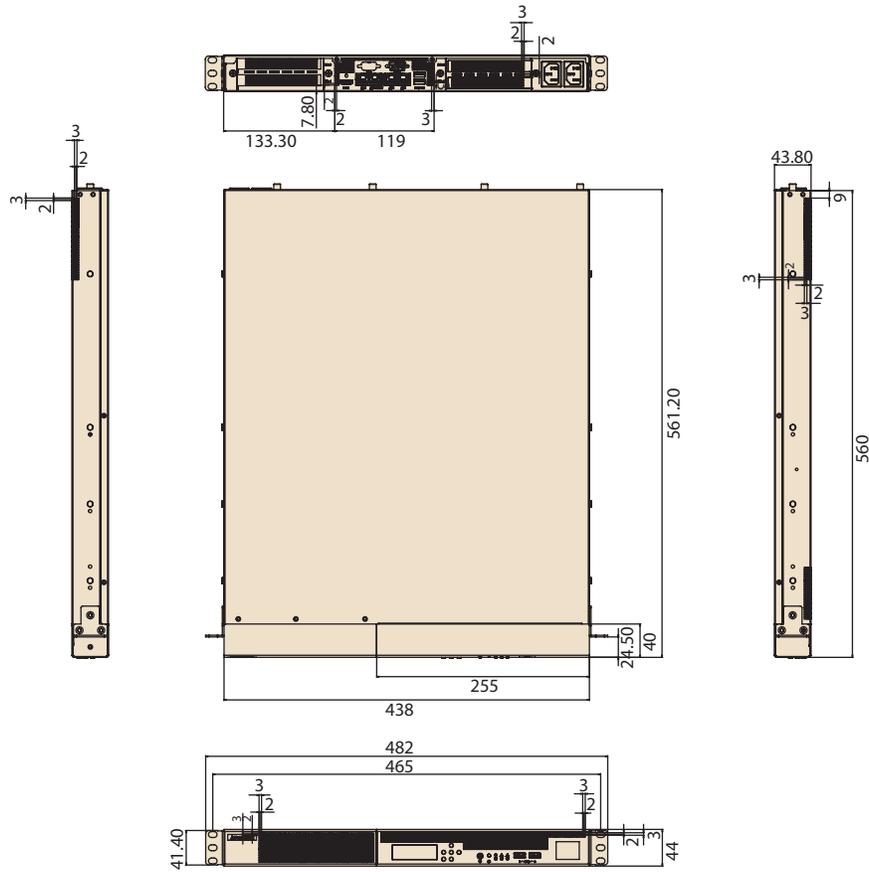
The VEGA-7030 is a highly configurable, 1U, short-depth video applications server based on the Intel 14th Core family of desktop processors (also known as Raptor Lake-S Refresh). Supporting up to 24 CPU cores with on-board Intel UHD Graphics and Quick Sync Video functionality, the VEGA-7030 offers plenty of processing power for many software video workflows while its class-leading four 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-7030 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 and a small OLED confidence monitor for video display, but inside this is a reliable server architecture with dual redundant 550W power, dual NVMe storages, and options for BMC-based remote management and secure TPM feature. The short depth, high temperature operation makes VEGA-7030 especially suitable for video edge or field installations as well as equipment cabinets. VEGA-7030 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® 14th Generation Core™ i3/i5/i7/i9 (TDP up to 65W)
	Socket Reference	FCLGA1700 (Raptor Lake-S Refresh)
	Intel PCH chipset	W680
Graphics	Embedded Controller	Intel UHD Graphics 770
	Memory channels	2 channels DDR5 ECC/Non-ECC Up to 5600 MHz DIMM
Memory	Max. Capacity	64GB (2 x 32GB)
	M.2 NVME	2 x M.2 2280
Storage	2.5 SATA	2 x 2.5" SSD (optional)
	Rackmount/Tabletop/Others	1U Rackmount
Physical Characteristics	Height x Width x Depth	44 x 438 x 560 mm
	System PSU	Redundant AC/550W
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) 2 x PCIe Gen 3 x4 FH/HL (x8 + x8 physical)
	Interface	10/100/1000/2500 Mbps
Networking	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
	OLED	1
	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
	USB	2 x USB3.2 GEN2 ports
Security	TPM	TPM2.0
System Management	BMC	Aspeed AST2600 BMC (Optional)
Environment	Relative Humidity	Operating, 95% RH @ 40°C, non-condensing Non-operating, 95% RH @ 60°C, non-condensing
	Storage Temperature	-20 to 70 °C
	RoHS6 Compliant	RoHS 5/6
	Operation Temperature	0 to 45 °C

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
VEGA-7030-0A00E	VEGA-7030 Raptor Lake-S Refresh 2-PSU STD BMC Server