

VEGA-7241

Video Edge Server

Preliminary



Features

- Short depth 2U x 19" x 535mm Video Edge Server
- High Performance video processing by AMD EPYC-9004/9005 Processor*
- High Reliable & Easy Management
- Design for field operation
- Up to 4 PCI Express accelerators or I/O cards per chassis

Introduction

The Advantech VEGA-7241 is a high-performance 2U short-depth video edge server optimized for real-time encoding, transcoding, and AI analytics in the broadcasting and medical industries. Powered by AMD EPYC™ 9005 series processors with up to 32 cores, the system supports a massive 3TB of DDR5 memory for high-bandwidth video streams. This scalable platform accommodates up to six PCIe Gen5 expansion slots for powerful accelerators and capture cards.

VEGA-7241 seamlessly can handle the most demanding medical imaging and broadcast transmission workloads. Whether deployed for 3D video solutions in surgery or as a robust “worker node” for cloud-edge transcoding, the VEGA-7241 ensures ultra-low latency and integrated AI content analytics. Built for field operations, its compact design thrives in temperatures up to 45°C, supported by dual redundant PSUs and full remote management via integrated BMC. Transform your video infrastructure with the scalable, high-density performance of the VEGA-7241 defined in the sources.

Specifications

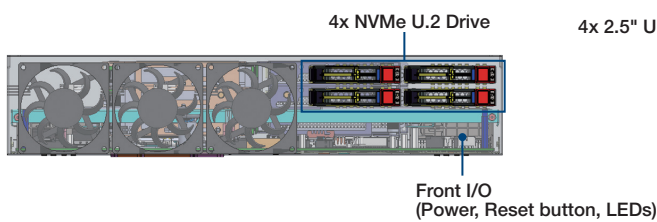
CPU		AMD EPYC™ EPYC-9004/9005 Series Processor
Memory	Memory Channels	12 x DIMM DDR5 RDIMM
	Max Capacity	up to 3TB maximum
Storage	M.2 NVME	2 x 2280 Type M, PCIe Gen4 x4
	U.2 NVME	4 x 2.5" NVMe U.2 Drive
Physical Characteristics	Rackmount/Tabletop/Others	2U Rackmount
	Height x Width x Depth	438 x 535 x 88 mm (W x D x H)
Power Supply	System PSU	90 – 260V AC In, 800/1200/1600W ATX Power Supplier
PCI Express Card Slots	PCIe slot qty for Add on card	2 x PCIe x16 Gen5 FHFL & 2 x PCIe x8 Gen5 FHHL
Networking	Connector	2 x GbE RJ45, 2 x 10GbE RJ45
Front I/O Interface		Power, reset buttons, 3 user controllable LEDs
Rear I/O Interface		2 x USB 3.2 (5Gbit/s) Type A
Direct Video Output		1 x VGA
System Management	BMC	Aspeed AST2600BMC
Fans		6 system fans all speed controlled with smart fan algorithm PCIe bays have dedicated fans, speed controllable by user
Environment	Operation Temperature	0 to 45°C

Dimensions

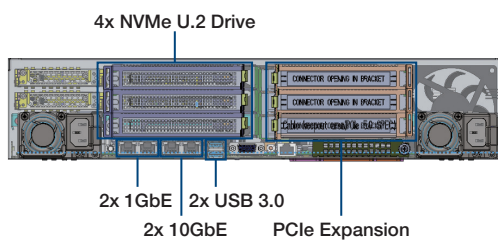
Unit: mm [inch]

Front Panel and Rear Panel Design Concept

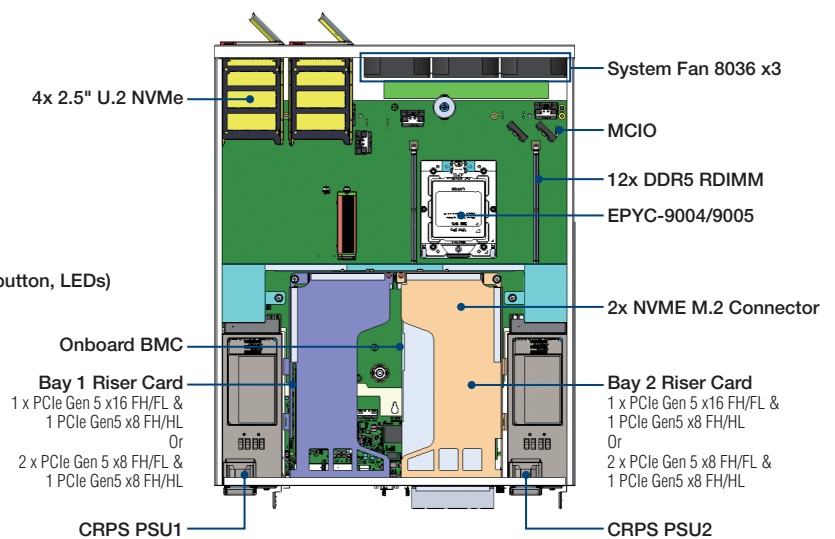
Front View



Rear View



Inner View



Notes

* 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.

* EPYC 9004 is available as an optional, not a default CPU option