

VEGA-7241

2U Video Edge Server

Preliminary



Features

- Short depth 2U x 19" x 565mm Video Edge Server
- High Performance video processing by AMD EPYC-9005 Processor*
- High Reliable & Easy Management
- Design for field operation
- Up to 6 PCI Express accelerators or GPU 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 768GB 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.

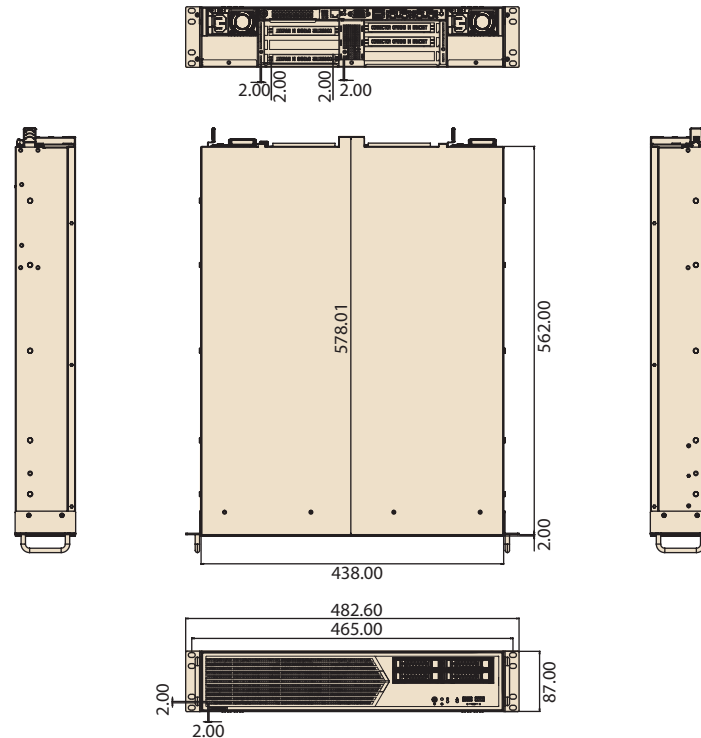
VEGA-7241 seamlessly can handle the most demanding broadcast transmission workloads. Whether deployed for 3D video solutions in surgery or as a robust “worker node” for cloud-edge transcoding, the VEGA-7241 ensures ultra-low latency and integrated AI content analytics. Built for field operations, its compact design thrives in temperatures up to 40°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-9005 SP5 Series Processor
Memory	Memory Channels	12 x DIMM DDR5 RDIMM
	Max Capacity	up to 768GB maximum
Storage	M.2 NVME	2 x 2280
	U.2 NVME	4 x NVMe U.2 Drive
Physical Characteristics	Rackmount/Tabletop/Others	2U Rackmount
	Width x Depth x Height	438 x 565 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	4 x PCIe Gen5 Slots (Optional) 2 x Double-Deck FH3/4L 10.5" PCIe G5x16 (≤300W active HS) + 2 x Single-Deck FHHL PCIe G5x16 Or 6 x PCIe Gen4 Slots (Optional) 2 x Single-Deck FH3/4L 10.5" PCIe G4x16 + 2 x Single-Deck FH3/4L 10.5" PCIe G4x8 (Physical x16 Slot) + 2 x Single-Deck FHHL PCIe G4x8 (Physical x16 Slot)
Networking	Connector	2x GbE RJ45 (NCSI), 2x 10GbE RJ45
Front I/O Interface		Power, reset buttons, 2x LED (Power, Status), 2x USB
Rear I/O Interface		2 x USB Type A
Direct Video Output		1 x VGA
System Management	BMC	Aspeed AST2600BMC
Fans		3 system fans all speed controlled with smart fan algorithm
Environment	Operation Temperature	0 to 40°C

Dimensions

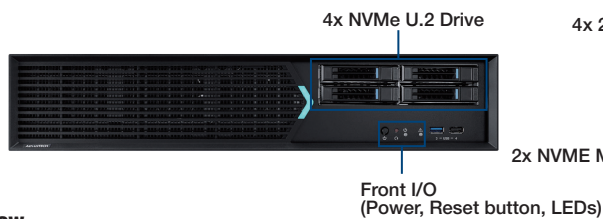
Unit: mm [inch]



Front Panel and Rear Panel Design Concept

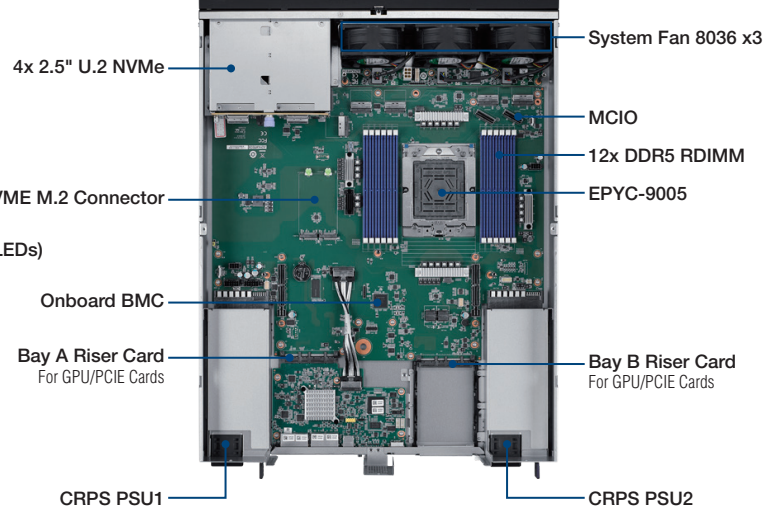
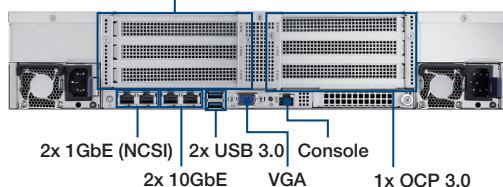
Inner View

Front View



Rear View

4 x PCIe Gen5 Slots (Optional)
 2 x Double-Deck FH3/4L 10.5" PCIe G5x16 ($\leq 300W$ active HS) +
 2 x Single-Deck FHHL PCIe G5x16
 Or 6 x PCIe Gen4 Slots (Optional)
 2 x Single-Deck FH3/4L 10.5" PCIe G4x16 + 2 x Single-Deck
 FH3/4L 10.5" PCIe G4x8 (Physical x16 Slot) + 2 x Single-Deck
 FHHL PCIe G4x8 (Physical x16 Slot)



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.