

13th Gen Intel Core i9/i7 Industrial 4U GPU Computer

VELA-GPU-RPL-4U

A configurable 4U GPU-accelerated platform for AI, machine vision, video processing and multi-display applications. Built around the Advantech AIMB-788 industrial ATX motherboard, the system supports 13th Gen Intel Core i9 or i7 processors and NVIDIA RTX PRO 4000 Blackwell graphics, with alternative GPU configurations available. It also supports up to 64GB DDR4 memory and 2TB PCIe x4 M.2 storage, with in-stock components helping support quick dispatch and long-term availability.



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Standard Configurations

This specification sheet covers both standard variants. Differences are shown side by side. Shared specifications apply to both models, unless stated otherwise.

Specification	VELA-GPU-RPL-TWR-I7	VELA-GPU-RPL-TWR-I9
Processor	13 th Gen Intel Core i7-13700E	13 th Gen Intel Core i9-13900E
Cores / Theads	16 / 24	24 / 32
All Core Boost	5.10GHz (P-Cores), 3.9GHz (E-Cores)	5.20GHz (P-Cores), 4.0GHz (E-Cores)
Cache	24MB	36MB
Memory	32GB (2x16GB) DDR4 3200MHz	64GB (4x16GB) DDR4 3200MHz
Storage	1TB M.2 2280 NVME, PCIe Gen4x4, 3D TLC BiCS5	2TB M.2 2280 NVME, PCIe Gen4x4, 3D TLC BiCS5
System Core		
Motherboard	Advantech AIMB-788 ATX Industrial Motherboard	
Chipset	Intel Q670E	
CPU Socket	LGA1700	
Supported CPU Power	Up to 65W	
Chassis	ACP-4340MB-50B - 4U Industrial Rackmount ATX Chassis with 4x Hot-Swap Drives Bays	
Power Supply	500W 80 Plus Bronze ATX Power Supply	
Graphics	NVIDIA RTX PRO 4000 24GB Blackwell Graphics Card with 8960 CUDA Cores, 280 Tensor Cores, 70 Ray Tracing Cores, GDDR7 ECC, PCIe 5.0(x16), 4x DP, 140W	

System Specification

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I/O		
Ethernet	2x Gigabit Ethernet	
Display	1x DisplayPort; 1x HDMI, 1x VGA	
USB Rear	2x USB3.2 Gen2, 2x USB3.2 Gen1, 4x USB2.0	
USB Front	2x USB3.0	
USB Internal <i>(Requires Breakout Cable)</i>	2x USB2.0 (Header), 2x USB2.0 (Type-A)	
Serial	1x RS-232	
Serial Internal <i>(Requires Breakout Cable)</i>	4x RS-232/422/485, 1x RS-232	
Storage & Expansion		
M.2	1x M.2 2280 M-key (PCIe Gen4 x4)	
Drive Bays	4x Hot-Swap 3.5"/2.5" SATA HDD Trays; 1x 2.5" Internal Drive Bay; 1x Slim Optical	
RAID	0/1/5/10	
PCIe	1x PCIe Gen 4 [x16], 1x PCIe [x8], 3x PCIe [x4]	
PCI	2	

System Specification

Specification	VELA-GPU-RPL-4U-I7	VELA-GPU-RPL-4U-I9
Security & Remote Management		
IPMI	No	
TPM	Via TPM2.0 Module	
Security	Intel Platform Trust Technology (Intel PTT) Ready for Windows 11. (VPro Requires TPM2.0 Module)	
Mechanical & Environmental		
Dimensions (W x H x D)	482 x 177 x 479mm	
Operating Temperature	0°C to +40°C	
Mounting	Rackmount - <i>Slide Rails Ordered Separately</i>	
Warranty	3 Years Return to Base	

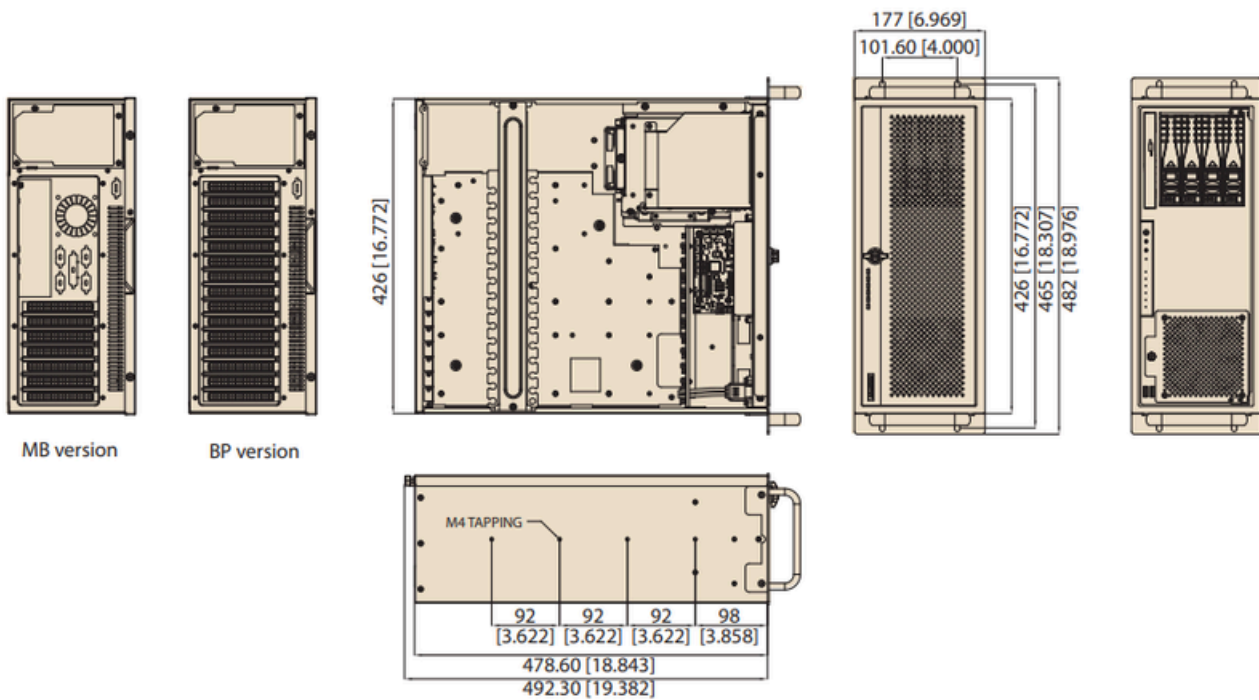
Ordering Information

Model	Processor	Memory	Storage
VELA-GPU-RPL-4U-I7	13 th Gen Intel Core i7-13700E	32GB	1TB
VELA-GPU-RPL-4U-I9	13 th Gen Intel Core i9-13900E	64GB	2TB

Configuration note: The specifications above define the two standard orderable VELA-GPU-RPL-4U systems. Alternative configurations are available and can be discussed separately. All specifications are subject to change without notice. Please visit our website for the most up to date product information.

Mechanical Specification

Dimensions



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