

Edge Compute Platform

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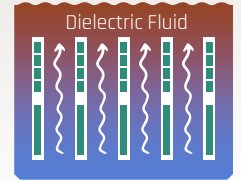


UET's Edge AI Infrastructure

- // Universal Edge Technologies delivers self-contained, high-density compute platforms that bring high-performance AI-ready processing to the edge. Its modular, portable design reduces reliance on fixed datacenters and enables rapid edge scaling.
- // Designed for contested, disconnected, and infrastructure-constrained environments, VectorEdge is a rugged, mission-ready platform that delivers AI and data processing capabilities directly at the point of need without reliance on cloud connectivity.

Datacenter Cooling at the Edge

Our system is able to deliver high-density compute in demanding environments because it leverages immersion cooling, a cooling method increasingly adopted by next-generation data centers, where compute hardware is submerged in a non-conductive dielectric fluid to improve performance and efficiency.



VectorEdge Carbon

4x NVIDIA H200 GPUs
3.5 kW Power Footprint



VectorEdge Large

24x+ NVIDIA H200 GPUs
30 kW Power Footprint



VectorEdge's Core Design Principles

- ✓ Immersion-cooled architecture for reliable high performance edge compute
- ✓ High-density AI-ready computing power for advanced workloads
- ✓ Modular and scalable deployment for standalone or clustered operations
- ✓ More cost-efficient than cloud dependence and traditional data centers

- ✂ Rapid Deployment
- ☁ Lower Cloud Spend
- 📁 Data Sovereignty
- 📦 Mobile and Rugged
- 🏠 Self-Contained
- 🔄 Integrated Cooling
- ⚡ Power Savings
- 🔇 Reduced Noise
- 📈 Increased Performance
- 🌡 Lower Heat Signature

Benchmark testing compared to similar systems

Metric	UET VectorEdge	Traditional Solutions	% Improvement
Core Temp (°C)	74°	86°	14% ▼
Clock Speed (MHz)	1,521 MHz	1,050 MHz	45% ▲
AI Compute Performance (GFLOPs/s)	40,259	29,157	38% ▲

Data Recorded under elevated ambient conditions to simulate real-world edge and field deployments

VectorEdge Carbon Configuration



Weight
150lbs / 68kg



Construction
Carbon Fiber



Dimensions
23" x 36" x 18"

Single CPU

	intel	AMD
CPU	1x Xeon 600 Series (up to 86 cores)	1x EPYC 9005 (up to 192 cores)
RAM	DDR5 6400, Max 1TB	DDR5 6400, Max 2TB
GPU	4x NVIDIA H200 NVLs	4x NVIDIA H200 NVLs
Storage	4x 15.36TB NVMe = 61.44TB	4x 15.36TB NVMe = 61.44TB

Dual CPU

CPU	2x Xeon 6700P Series (up to 86 cores / CPU)	2x EPYC 9005 (up to 192 cores / CPU)
RAM	DDR5 6400, Max 2TB	DDR5 6400, Max 4TB
GPU	Up to 3x NVIDIA H200 NVLs	Up to 3x NVIDIA H200 NVLs
Storage	4x 15.36TB NVMe = 61.44TB	4x 15.36TB NVMe = 61.44TB

VectorEdge Large Configuration



Weight
4800 lbs / 2200kg



Construction
6061-T6 Aluminum



Dimensions
84" x 52" x 68"

3 x Server

Total

CPU	Up to 2x AMD EPYC 9965 192-Core 2.25-3.7GHz 384MB Cache 500W	Up to 6x AMD EPYC 9965 192-Core 2.25-3.7GHz 384MB Cache 500W
RAM	Up to 24x 256GB RDIMM-3DS 6400Mbps 6TB Total	Up to 72x 256GB RDIMM-3DS 6400Mbps 18TB Total
Storage	4x 15.36TB M.2 NVMe 61.44TB	12x 15.36TB M.2 NVMe 184.32TB
	8x NVIDIA H200 NVLs	24x NVIDIA H200 NVLs
GPU	1x Dual-Port 25G/10G PCIe NIC	3x Dual-Port 25G/10G PCIe NIC
	1x NVIDIA ConnectX-6 HDR/200GbE Dual-Port QSFP56 PCIe 4.0 x16	3x NVIDIA ConnectX-6 HDR/200GbE Dual-Port QSFP56 PCIe 4.0 x16
FAN	3x CRPS 3200W PSU 80 PLUS Titanium (96%) N+1 Front HotSwap	9x CRPS 3200W PSU 80 PLUS Titanium (96%) N+1 Front HotSwap

Specifications and Features



Designed for
MIL-STD 810H



TAA Compliant
System



Operating Temp
0 to 40C



Liquid
Cooling



OS
Agnostic



Multiple
I/O Ports