

# AMD EPYC™ Solutions



## Navion® 2U Twin<sup>2</sup> Servers

### 1536 Cores in 2U

Maximum performance and maximum rack & core density for your cluster. This elegant platform includes four hot-swap compute nodes in a shared 2U chassis, liquid cooled. A clean cableless design and 80 PLUS PSUs make the Twin<sup>2</sup> ideal for dense, cost-effective clusters.



## WhisperStation™

### Quiet Workstation Performance

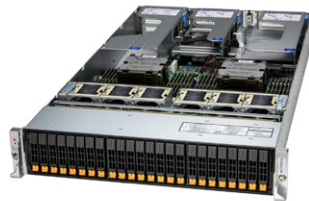
Ultra-quiet workstation for standalone scientific computing use or as part of an inexpensive cluster. WhisperStation provides up to 384 x86 cores using AMD EPYC CPUs plus leading CAD and GPU computing performance with NVIDIA RTX or AMD Radeon™ PRO.



## Navion 5U, 10U GPU Servers

### Unmatched GPU Density

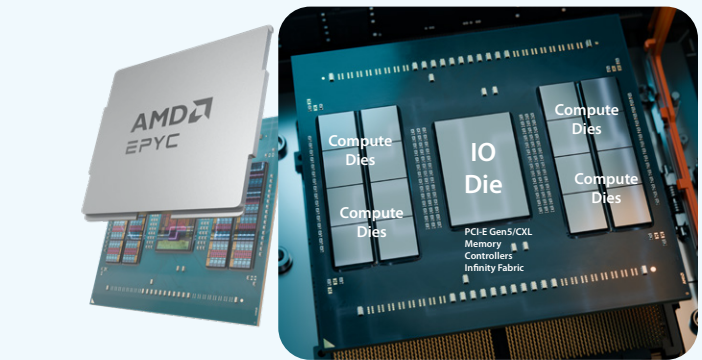
If your job is heavily accelerated, Navion GPU servers are built in dense configurations of 8, or 10 AMD or NVIDIA GPU Accelerators + AMD EPYC CPUs. Builds with PCI-Express (max 10) or SXM/OAM GPU form factors (8 GPUs) are available. With our careful attention to power & cooling, Microway GPU Servers outperform the competition.



## Navion 1U, 2U, and 4U 2P EPYC Servers

### Flexible, Leadership Performance

Class-leading x86 performance with high core counts & large memory for you most demanding applications. Available in 1U, 2U, or 4U configurations with up to 12TB high speed DDR5 memory, NVMe flash, and high-bandwidth, low-latency InfiniBand.



## AMD EPYC 9005 Series "Turin" Processors

- 8-128 cores (Zen5), 96-192 cores (Zen5c) per CPU
- New 3nm compute dies for up to 1.5X the core count of the previous generation
- 12ch DDR5-6000 memory, for increased memory BW
- Improved integer performance: 17% increase in IPC & up to 1.4X the throughput per core of competing CPUs

## Test Drive AMD EPYC with Microway

Request a Remote Login to our Benchmark Systems

- 2 AMD EPYC CPUs/node
- Pre-installed compilers for AMD EPYC
- Common libraries and MPI- implementations (ready-to-call)
- Expert assistance in comparing EPYC for your workload
- Request at [microway.com/take-a-test-drive/](https://microway.com/take-a-test-drive/)



## Software Integration Experts

- Major Linux distros: Rocky, Ubuntu, RHEL, SUSE, more
- AMD AOCC, GNU, LLVM Compilers
- Microway Cluster Management Software (MCMSTM) and Open OnDemand integration
- Legendary Service and Lifetime Technical Support

# Navion® Dense, Scalable EPYC Clusters



## Navion Clusters

Microway's AMD EPYC-based Navion clusters offer high-speed InfiniBand or Ethernet interconnects, NVIDIA or AMD GPUs, MCMS Cluster Management and Monitoring Tools, and software— including schedulers, MPI, and compilers.

Microway provides fully integrated Linux clusters at very competitive prices. Users worldwide pushing the limits of technology in enterprises, universities, and government research count on our expertise and attention to detail.

## Delivering Innovative HPC & AI Solutions Since 1982



	Navion Cluster Options
Processor	AMD EPYC™ 9005 Series 8,16,24,32,36,48,64,72,96, 128-core CPUs AMD EPYC™ 9005 Series 96,128,144,160, 192-core CPUs (Zen5c)
Processor Sockets Per Server	1, 2
Compute Nodes	1U, 2U, 3U, 4U, 2U Twin <sup>2</sup>
GPU Options	NVIDIA® Datacenter GPU Accelerators or AMD Instinct
Visualization Node Option	Navion 2U or 4U Visualization Nodes
Memory per Node	1P: up to 3TB DDR5; 2P: up to 12TB DDR5
Disk/Media Bays	1U: up to 12x U.3 NVMe; 2U: up to 24x U.3 or 36x E3.S 2U Twin <sup>2</sup> : 2x E1.S Drives
	Diskless compute node configurations available
Cluster Interconnect	NVIDIA Quantum-X800 (800Gb), NVIDIA Quantum-2 (NDR) or NVIDIA Quantum (HDR) InfiniBand Cornelis Omni-Path, 400/200/100/50/25G/10G Ethernet
System Management	IPMI v 2.0, OpenBMC, or Redfish
Storage Options	Ethernet, InfiniBand Attached NFS Storage Servers; Open-E Parallel Storage: BeeGFS®, DDN EXAScaler®, Open Source Lustre®, VAST, Weka, or VDURA
Operating Systems	Linux: Rocky, Ubuntu, RHEL, SUSE; Windows® Server
Compilers	AMD AOCC, GNU, LLVM, NVIDIA & Intel
Cluster Software	MVAPICH2, OFED, NVIDIA SHARP™ SLURM, PBS, or IBM Spectrum LSF
Monitoring & Management Software	Microway Cluster Management Software with Open OnDemand MPI Link-Checker™ and InfiniScope™
Cabinets and Infrastructure	APC NetShelter™ Cabinets, APC PDUs and UPS Protection
Services	Optional onsite installation, Factory Pre-Installation Service (Including Power/Network Wiring and Rails) Optional complete-rack air-ride shipment (roll-off, power-on)
Hardware Warranty	2 years with advanced replacement parts or return-to-factory Optional extended warranty term up to 5 years

[www.microway.com/epyc](http://www.microway.com/epyc)

Call our technical sales team at **508.746.7341**