

AMD EPYC™ Solutions



Navion® 2U Twin² Servers

768 Cores in 2U

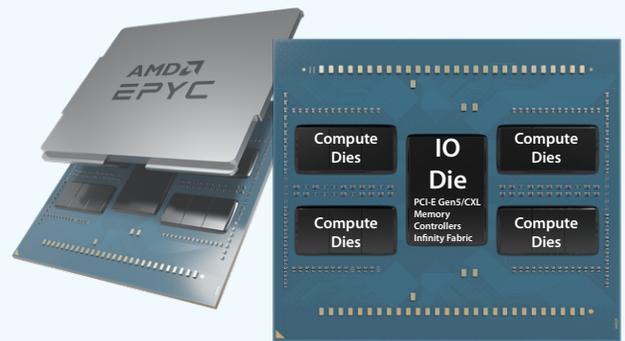
Pair maximum performance with maximum rack & core density for your cluster. This elegant platform includes four hot-swap compute nodes in a shared 2U chassis. A clean cableless design and 80 PLUS PSUs make the Twin² ideal for dense, cost-effective clusters.



WhisperStation™

Quiet Workstation Performance

Ultra-quiet workstation for standalone scientific computing use or as part of an inexpensive cluster. WhisperStation provides up to 192 x86 cores using AMD EPYC CPUs plus leading CAD and GPU computing performance with NVIDIA RTX or AMD Radeon™ PRO.



AMD EPYC 9004 Series "Genoa" Processors

- 96, 84, 64, 48, 32, 24, or 16 cores per CPU
- Up to 2.5X the SPECfp_rate2017 of competing x86 CPUs
- 12ch DDR5-4800 memory for 50% greater memory BW than top x86 CPUs (Max 460.8GB/sec)
- PCI-E Gen5 (160 lanes in 2 socket servers) and CXL 1.1 for ultra-fast GPU accelerator & I/O device integration



Navion 2U, 4U, 5U GPU Servers

Unmatched GPU Density

If your job is heavily accelerated, Navion GPU servers are built in dense configurations of 4, 8, or 10 AMD or NVIDIA GPU Accelerators + AMD EPYC CPUs. Builds with PCI-Express (max 10) or SXM/OAM GPU form factors (4/8 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 6TB high speed DDR5-4800 memory, NVMe flash, and high-bandwidth, low-latency InfiniBand.

Test Drive 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/



Software Integration Experts

- Major Linux distros: Rocky, Ubuntu, RHEL, SUSE, more
- AMD AOCC, GNU, LLVM Compilers
- Microway Cluster Management Software (MCMST™) 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 life sciences, universities, commercial and government research count on our expertise and attention to detail.

Delivering Innovative HPC Solutions Since 1982



	Navion Cluster Options
Processor	AMD EPYC™ 9004 Series 16, 24, 32, 48, 84, or 96-core CPUs
Processor Sockets	1P, 2P
Compute Nodes	1U, 2U, 3U, 4U, 2U Twin ²
GPU Options	NVIDIA® Datacenter GPU Accelerators or AMD Instinct
Visualization Node Option	Navion 2U or 4U Visualization Nodes
Memory per Node	1P: up to 6TB DDR5-4800; 2P: up to 12TB DDR5-4800; 2U Twin ² 2P: Up to 6TB DDR5-4800
Disk/Media Bays	1U: 4x3.5" or 10xU.2 with NVMe Support, 2U Twin ² : 3x3.5" Drives or 6x U.2 with NVMe Support
	Diskless compute node configurations available
Cluster Interconnect	NVIDIA ConnectX®-7 NDR or ConnectX-6 HDR InfiniBand, Cornelis Omni-Path, 100/50/25G, 10G, or Gigabit Ethernet
System Management	IPMI v 2.0, OpenBMC, or Redfish
Storage Options	Gigabit Ethernet, InfiniBand Storage NAS (NFS) BeeGFS®, DDN EXAScaler®, Open Source LUSTRE, Panasas®
Operating Systems	Linux: Rocky, Ubuntu, RHEL, SUSE; Windows® Server
Compilers	AMD AOCC, GNU, LLVM, NVIDIA & Intel
Cluster Software	MVAPICH2, OFED, and OpenMPI; Choice of SLURM, PBS, or IBM Spectrum LSF
Monitoring & Management Software	Microway Cluster Management Software with Open OnDemand MPI Link-Checker™ and InfiniScope™ NVIDIA Bright Cluster Manager or IBM Spectrum Cluster Manager
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

Call our technical sales team at **508.746.7341**