

HIGH PERFORMANCE FOR THE MOST DEMANDING WORKLOADS:

Intel® Xeon® Solutions



NumberSmasher® 2U Twin² Servers

Greatest Density

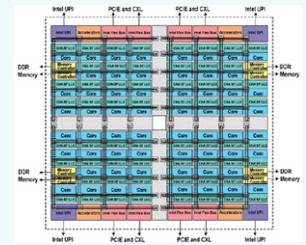
This elegant platform includes four compute nodes with hot-swap motherboard modules, hard drives and redundant power supplies. Ideal for flexible cluster design, the Twin² helps you build out dense, cost-effective, scale out HPC clusters.



NumberSmasher 2P Xeon Servers

Superior Flexibility

Achieve ultimate performance in flexible configurations for any compute requirement. Configured with optional NVMe flash storage and high-bandwidth, low-latency fabric, these systems are reliable high-performance single servers/cluster nodes.



4th Gen Xeon Scalable Processors (formerly Sapphire Rapids)

- New microarchitecture and up to 60 cores per CPU
- Improved floating point & integer performance per core
- 50% greater memory BW, 8ch DDR5-4800 memory
- Intel AMX Instructions: improved AI training performance
- PCI-E Gen5 and CXL 1.1 support for accelerators

Xeon Max Processors with HBM2e Memory

Designed for memory bandwidth-bound workloads

- Up to 2X-2.7X the performance for CFD of previous generation Xeon Processors (ex: Fluent, OpenFOAM)
- 64GB of HBM2e with bandwidths of up to 1TB/sec
- Utilize HBM as ultra-fast CPU memory, cache for DDR5, or as 2nd separate memory region aside DDR5
- Ideal for CFD, CAE, Weather, AI, or custom applications

Custom Software Integration Specialists

- Linux: Rocky, Ubuntu, RHEL, SUSE, more
- Intel oneAPI & GNU Compilers
- Microway Cluster Management Software (MCMS™)
- Legendary Service and Technical Support



WhisperStation™

Quiet Workstation Performance

Ultra-quiet workstation for standalone scientific computing use or as part of a quiet cluster. It provides up to 120 x86 cores using Xeon Scalable Processors, visualization or computation with NVIDIA RTX® Professional GPUs.

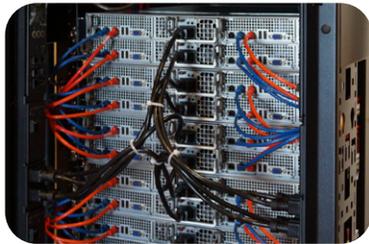


NumberSmasher QuadPutter with 4 CPUs

1 Node— 8TB, 240 cores
Harness 4 Intel Xeon processors for your large memory workloads or highly parallel OpenMP jobs. Leverage new kinds of scale—or consolidate with capability formerly available only as a cluster in a single, easy to manage server.

Scalable Xeon Clusters

DELIVERED READY TO RUN



NumberSmasher Clusters

Microway's robust, Intel Xeon-based NumberSmasher clusters offer high-speed interconnects, GPUs, MCMS Remote Cluster Management and Monitoring Tools, and software including Intel oneAPI Compilers and Cluster Tools.

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



	NumberSmasher Cluster Options
Processor	4th Gen Intel® Xeon® Scalable Processor Platinum (2, 4, 8 sockets) 4th Gen Intel® Xeon® Scalable Processor Gold, Silver (2P)
Processor Sockets	1P, 2P, 4P, 8P
Compute Nodes	1U, 2U, 4U, 2U Twin ²
GPU Options	NVIDIA® Datacenter GPUs, Intel Datacenter GPUs
Visualization Node Option	NumberSmasher 2U, 4U GPU Compute Nodes
Memory per Node	2P: up to 8TB DDR5 ; 2U Twin ² 2P: 4TB DDR5, 4P: Up to 8TB
Disk/Media Bays	1U: 4x3.5" or 10x2.5" or U.2 NVMe, 2U Twin ² : 3x3.5" Hard Drives, or 6x U.2 NVMe
	Diskless compute node configurations available
Cluster Interconnect	NVIDIA® ConnectX®-7 NDR and ConnectX-6 HDR InfiniBand Cornelis Omni-Path; 200G, 100G, 50/25G, 10G, or 1G Ethernet
Management Interface	IPMI v 2.0, OpenBMC, or Redfish
Storage Options	Ethernet, InfiniBand-attached Storage Servers, Open-E DDN EXAScaler Lustre, VAST Data, BeeGFS, or Panasas®
Operating Systems	Linux: Rocky, Red Hat, Ubuntu, SUSE, more; Windows® Server
Compilers	Intel oneAPI and GNU
Cluster Software	MVAPICH2, OFED Intel MPI, OpenMPI, IBM Spectrum MPI; SLURM, PBS Professional, IBM Spectrum LSF
Monitoring & Management Software	Microway Cluster Management Software or OpenHPC 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	Advanced replacement parts or return-to-factory Optional extended warranty term up to 5 years

www.microway.com/xeon

Call our technical sales team at **508.746.7341**