Intel® Xeon® Solutions





NumberSmasher® 2U Twin or 2U/3U Twin² **Servers**

Greatest Density

Support the greatest rack density with up to 4 nodes in 2U (liquid-cooling, P-core) or 2 nodes in 2U (air cooling, P-core). This elegant platform strikes a balance between shared & dedicated infrastructure for superior cost/performance vs 1U servers for clusters and improved rack density.



WhisperStation™

Quiet Workstation Performance

Ultra-quiet workstation for standalone scientific computing use or as part of a quiet cluster. It provides up to 256 x86 cores using Xeon 6900 Processors with P-Cores, visualization or computation with NVIDIA RTX® Professional GPUs.



NumberSmasher 1U, 2U, and 4U 2P Xeon Servers

Superior Flexibility

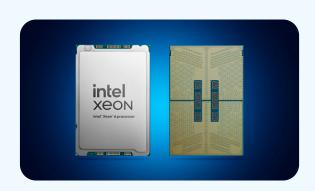
Achieve ultimate performance in flexible configurations for any compute requirement. Available in 1U, 2U, or 4U designs. Architected with NVMe flash storage and high-bandwidth, low-latency fabric, these systems are reliable highperformance single servers or cluster nodes. Available with P-cores or E-cores.



NumberSmasher E3.S **NVMe Servers**

1PB in 2U

Scale up your highperformance storage with up to 1PB of NVMe in a 2U server. Supports up to 32x E3.S NVMe drives to achieve unmatched flash storage capacity and bandwidth in a 2U footprint. Built upon Xeon 6 processors with E-Cores.



Intel Xeon 6 Processors: Diverse Options for Performance and Efficiency

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Advanced Performance	Mainstream Series
Intel Xeon 6900P (with P-cores)	Intel Xeon 6700P (with P-cores)
 72-128 cores per CPU 12ch memory, DDR5-6400 or MR DIMMs (8800MT/sec) 1.7X -2.3X the memory BW of the previous generation Supports AVX-512 and HyperThreading, AMX w/ FP16 High Performance Cores w/up to 500W TDP - HPC, AI, more 	 Up to 86 cores per CPU 8ch DDR5 memory Supports AVX-512 and HyperThreading, AMX w/ FP16 High Performance Cores w/up to 350W TDP - Enterprise Compute and HPC
Intel Xeon 6900E (with E-Cores)	Intel Xeon 6700E (with E-cores)

- Up to 288 cores per CPU
- 12ch DDR5 memory
- Efficiency core architecture
- High core density with up to 500W TDP- Cloud & VM Density
- 64-144 cores per CPU
- 8ch memory, DDR5-6400
- Efficiency core architecture
- High core density w/up to 350W TDP- Cloud/Storage Perf. per Watt

Custom Software Integration Specialists

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







Scalable Intel Xeon Clusters

DELIVERED READY TO RUN



NumberSmasher Clusters

Microway's robust, Intel Xeon-based NumberSmasher clusters offer high-speed interconnects, GPUs, MCMS 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 enterprises, universities, and government research count on our expertise and attention to detail.

Delivering Innovative HPC & AI Solutions Since 1982



	NumberSmasher Cluster Options	
Processor	Intel® Xeon® 6 Processors with P-cores (1, 2, 4, 8 sockets) Intel® Xeon® 6 Processors with E-cores (1, 2 sockets)	
Compute Nodes	1U, 2U, 4U, 2U Twin, 2U Twin ² , 3U Twin ²	
Accelerator Options	NVIDIA® Datacenter GPUs, Intel Gaudi	
Visualization Node Option	NumberSmasher 4U GPU Compute Nodes	
Memory per Node	2P: up to 8TB DDR5 ; 4P: Up to 16TB	
Disk/Media Bays	1U: 12x U.3 NVMe, 16x E3.5 NVMe 2U: 24x U.3 NVMe, 32x E3.5 NVMe 2U Twin, 2U/3U Twin²: Varied	
	Diskless compute node configurations available	
Cluster Interconnect	NVIDIA Quantum-X800 (800Gb), NVIDIA Quantum-2 (NDR) or NVIDIA Quantum (HDR) InfiniBand Cornelis Omni-Path; 400G, 200G, 100G, 50/25G, 10G Ethernet	
Management Interface	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, Red Hat, Ubuntu, SUSE, more; Windows® Server	
Compilers	Intel oneAPI and GNU	
Cluster Software	MVAPICH2, OFED, NVIDIA SHARP™ 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™	
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**