BUILT FROM THE GROUND UP FOR THE INTERSECTION OF AI & HPC

NVIDIA® GPU Solutions

Navion 4U with 4 NVIDIA A100 NVLink GPUs

NVLink Interconnect
Compute faster with four NVLink-connected NVIDIA A100 GPUs for AI training. With two AMD EPYC Processors and four NVIDIA A100 GPUs, this server offers a compelling pairing of leadership-class CPUs and GPUs. It delivers high-bandwidth transfers via PCI-E Gen4 interfaces and is available with high-speed fabric + NVMe.

NVIDIA® A100 GPU Accelerator
Unprecedented Acceleration at Every Scale

- 9.7 TFLOPS FP64 | 19.5 TFLOPS FP32 | 156 TFLOPS TF32
- Leading HPC, AI Training, or AI Inference Performance
- 3rd Gen NVLink™ interconnect: 600GB data pipe/GPU
- 40GB HBM2 Memory, 1,555 GB/s Memory Bandwidth
- New TF32 Instructions for Training + FP64 Tensor Cores
- Socketed SXM4 (NVLink) and PCI-E 4.0 Form Factors

NVIDIA® DGX A100™ with NVIDIA A100 GPUs
The Universal System for AI Infrastructure

- Nearly 5 PFLOPS of AI training performance
- 8 NVIDIA A100 with NVLink GPUs
- Enhanced NVLink Interconnect (600GB/sec/GPU)
- AI Training, Inference, or HPC
- Deep Learning & AI Appliance: Ready to run frameworks, Easy to Use Docker-interface

Software Integration Experts

- NVIDIA CUDA® Toolkit installed and configured
- Intel, NVIDIA HPC SDK with OpenACC, or GNU Compilers
- Linux (CentOS, RHEL, Ubuntu, more) or Windows Server
- Microway Cluster Management Software (MCMS™)
- Legendary Service and Technical Support

NumberSmasher 4U Tower/GPU Server
Balanced CPU:GPU Configuration
A balanced, versatile configuration with 2 CPUs and 4 GPUs suitable for many HPC applications. These 4U GPU servers offer additional PCI-E slots and optional hardware RAID support for up to 8x drives. Support for a wide array of GPUs and PCI-E devices is also available.

Navion 2U with 4 NVIDIA A100 NVLink GPUs

NumberSmasher® 1U NVIDIA PCI-E GPU Server
Cost-Effective Density
Customize to your workload with this powerful, versatile configuration. Supporting up to 4 PCI-E GPUs, plus high-speed fabric and storage, these 1U servers offer a compact footprint. With several CPU, GPU, and storage configurations available, our experts optimize these servers for your critical applications.

Navion 4U 8 GPU Server, Octoputer™ Servers
Highest Capacity
Scale up to 195 FP32 TFLOPS, 1.5 PFLOPS of TF32 for AI with 8 or 10 NVIDIA A100 GPUs. Ideal for AI, highly accelerated GPU apps & GPU-Direct Peer-to-Peer. Optional InfiniBand for clustering, RAID, NVMe storage and Quadro® RTX professional graphics. Support for full PCI-E Gen4 link speeds in our Navion 4U 8 GPU Server.

Navion 2U with 4 NVIDIA A100 NVLink GPUs

Navion 4U with 4 NVIDIA A100 NVLink GPUs

NumberSmasher 4U Tower/GPU Server

www.microway.com/nvidia

Call our technical sales team at 508.746.7341
Microway's robust, NVIDIA GPU-based clusters offer high-speed interconnects, NVIDIA datacenter GPUs, MCMS Remote Cluster Management and Monitoring Tools or the OpenHPC Stack, plus the NVIDIA CUDA® and HPC SDKs.

Microway provides these 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

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<th>NVIDIA GPU Cluster Options</th>
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| **Processor** | Intel® Xeon® Scalable Processors with 4-28 Cores  
| | AMD® EPYC™ Processors, 16-64 Cores |
| **Processor Sockets** | 1P, 2P, 4P |
| **Compute Nodes** | NumberSmasher (Xeon) & Navion (EPYC) 1U, 2U, 4U GPU Servers  
| | NVIDIA DGX AI Systems |
| **GPU Options** | NVIDIA® A100, Tesla® V100 or Quadro® RTX |
| **Visualization Node Option** | NumberSmasher or Navion 1U, 2U, 3U, 4U GPU Servers |
| **Memory per Node** | 2P: up to 3 TB DDR4, 4P: Up to 6 TB DDR4 |
| **Disk/Media Bays** | 1U: 2x2.5” Hard Drives,  
| | 2U, 4U: 8x3.5” Hard Drives; OctoPuter: 24x 2.5” Hard Drives  
| | Diskless compute node configurations available |
| **Cluster Interconnect** | Mellanox® ConnectX®-6 HDR or EDR InfiniBand  
| | 200GigE, 100GigE, 50/25GigE, 10GigE or Gigabit Ethernet |
| **Management Network** | IPMI v 2.0 and Redfish |
| **Storage Options** | Gigabit or InfiniBand Storage NAS, Nexsan,  
| | DDN ExaScaler Lustre, BeeGFS, or Panasas® |
| **Operating Systems** | Linux: CentOS, Red Hat, Ubuntu, more; Windows® Server |
| **Compilers** | CUDA, NVIDIA HPC SDK, Intel and GNU |
| **Cluster Software** | MVAPICH2, OFED, and OpenMPI;  
| | SLURM, PBS Professional, or IBM Spectrum LSF |
| **Monitoring & Management Software** | Microway Cluster Management Software (MCMS)  
| | MPI Link-Checker™ and InfiniScope™  
| | 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  
| | (Power & network pre-wiring, pre-installation of 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 |

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