

BLEEDING EDGE TESLA GPU PERFORMANCE:

NVIDIA® Tesla® K40/K80 Solutions



WhisperStation™ - Tesla

Quietest GPU Workstation

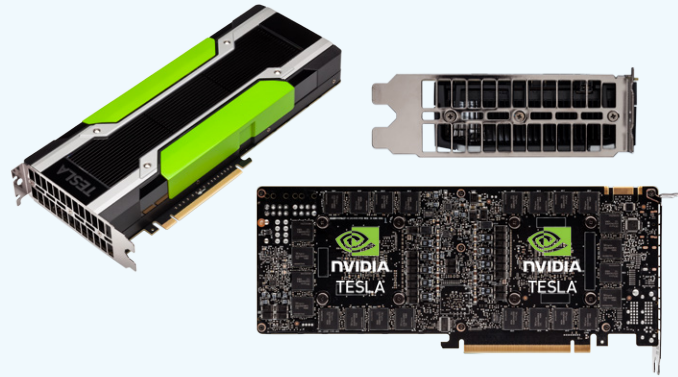
Increase your CUDA application performance with up to 4 Tesla GPUs, quietly and with superior cooling, at your desktop. WhisperStation - Tesla can be custom configured to exact user specifications with SSDs, RAID, NVIDIA Quadro® graphics, and specialized software.



NumberSmasher® 1U GPU Servers

Balanced, Cost-Effective

Deliver the optimal GPU:CPU ratio for your application needs. A compact 1U footprint for up to 3 GPUs ensures balanced application performance. NumberSmasher 1U GPU is available in varied CPU, memory, and GPU configurations and includes redundant power.



NVIDIA Tesla K80 GPU Accelerators:

- Double the density: two GK210 chips per card
- 4992 total SMX CUDA cores: 2496 on each chip!
- 24GB GDDR5; aggregate bandwidth 480GB/sec
- 5.6 TFLOPS single precision, 1.87 TFLOPS double
- 8.74 TFLOPS SP, 2.91 TFLOPS DP with GPU Boost
- Passively cooled, for servers only



NumberSmasher 2U, 4U GPU Servers

Higher GPU:CPU Density

Leverage a versatile configuration with up to 4 GPUs, while retaining a compact footprint. These 2U and 4U GPU servers offer more robust features like onboard InfiniBand, additional PCI-E slots, or hardware RAID support for up to 8x 3.5" hard drives. Support for a wider array of GPUs and PCI-E devices is also available.



Octoputer™ Server with 8 Tesla GPUs

Highest density

Scale your performance with a platform ready for up to 8 Tesla GPUs. Ideal for well ported, massively parallel GPU codes, Octoputer puts **46 TFLOPS** of computing power into a single server. Optional InfiniBand for massively parallel GPU clustering or hardware RAID for SSD storage.

NVIDIA Tesla K80 Special Features

- **Improved GPU Boost:** Now with dynamically scaling GPU clocks within the power and thermal envelope
- **Zero-power-idle:** Ability to power down idle GPUs when they are not being used by an application

Custom Software Integration Specialists

- 64-bit Linux (SUSE, Red Hat, Gentoo, Debian and more)
- Microsoft® Windows® Server 2012 R2 with HPC Pack
- NVIDIA CUDA® SDK installed and configured
- Intel, Portland Group and GNU Compilers
- Microway Cluster Management Software (MCMS™)
- Legendary Service and Technical Support



Microway Scalable Tesla GPU Clusters

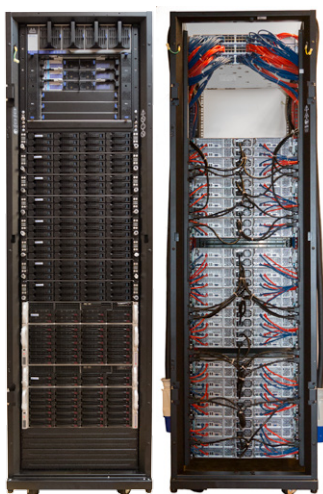


Tesla GPU Clusters

Microway's robust, NVIDIA GPU-based clusters offer high-speed InfiniBand interconnects, NVIDIA Quadro and Tesla GPUs, MCMS Remote Cluster Management and Monitoring Tools plus the NVIDIA CUDA® SDK and optional PGI® Compilers.

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



	Tesla GPU Cluster Options
Processor	Intel® Xeon® E5-2600v3 Series Processors with 4-18 Cores Xeon E5-4600v2 Series Processors
Processor Sockets	2P, 4P
Compute Nodes	NumberSmasher 1U, 2U, 3U, 4U GPU Servers
GPU Options	NVIDIA® Tesla® K10, K20X, K40, K80 and NVIDIA Quadro®
Visualization Node Option	NumberSmasher 1U, 2U, 4U GPU Servers
Memory per Node	2P: up to 512 GB DDR4, 4P: Up to 1 TB DDR3 1600Mhz
Disk/Media Bays	1U: 4x2.5" Hard Drives, 2U, 4U: 8x3.5" Hard Drives; OctoPuter: 24x 2.5" Hard Drives
	Diskless compute node configurations available
Cluster Interconnect	Mellanox® ConnectIB™ or ConnectX®-3 FDR, QDR InfiniBand Intel InfiniBand, 40GigE, 10GigE or Gigabit Ethernet
Management Network	IPMI v 2.0
Storage Options	Gigabit Ethernet, InfiniBand Storage NAS, Open-E® LUSTRE, Panasas®, or NetApp® Parallel Storage
Operating Systems	64-bit Linux: SUSE, Red Hat, Debian, Gentoo; Microsoft® Windows® Server 2012 R2 with HPC Pack
Compilers	CUDA, PGI, Intel and GNU
Cluster Software	MVAPICH2, MPICH, OFED, and OpenMPI; Torque, SLURM, Maui, and Moab
Monitoring & Management Software	Microway Cluster Management Software, MPI Link-Checker™ and InfiniScope™ Bright Cluster Manager® Standard or Advanced Edition
Cabinets and Infrastructure	APC® NetShelter™ Cabinets, APC PDUs and UPS Devices
Services	Optional onsite installation, Factory Pre-Installation Service (Power & network pre-wiring, pre-installation of rails)
Hardware Warranty	2 years with advanced replacement parts or return-to-factory Optional extended warranty term

www.microway.com

Call our technical sales team at **508.746.7341**