WHY MICROWAY?

WE SPEAK HPC & AI
Many hardware vendors claim GPU expertise, but very few deliver on that promise. Still fewer have been delivering GPU compute since its inception. Microway understands the nuances of GPU hardware - how to architect, build, test, integrate, and deliver it. We’re unique, and we’ll prove why.

EXPERT GUIDANCE, CUSTOM SOLUTIONS
Share the details of your application or code. Microway experts will help you evaluate the best candidate hardware platforms for your application. Then, they’ll help design a custom configuration that’s tuned to your specific needs.

INTENSIVE BURN-IN TESTING
Don’t get stuck with a dud. Every Microway system receives 72+ hours of burn-in testing prior to shipment. This includes specialized stress tests for NVIDIA GPUs. We find bad components, so you have a superior experience out-of-the-box.

COMPLETE GPU SOFTWARE INTEGRATION
Our team integrates all the drivers, packages, and SDKs that enable you to start working on your system or cluster from day 1. For AI deployments, we’ll preinstall frameworks—users may even request installation of NVIDIA NGC containers.

EXPERIENCE: BUILDING GPU COMPUTING, SINCE THE BEGINNING OF GPU COMPUTING
We started delivering GPU solutions in 2007—before Tesla GPUs even existed. We’ve grown with the community since, and we have hundreds of satisfied customers & thousands of GPUs in the field.
Microway offers over a dozen GPU platforms to build your cluster, server, or workstation deployment. Few vendors document how platforms are designed, yet how do you identify the best architectures for performance without this information? We’re not afraid of technical details. Overwhelmed? An expert can help steer you to the best solution.
BALANCED GPU COMPUTING
2 INTEL XEON CPUS + 4 NVIDIA TESLA GPUS

NUMBERSMASHER® 4-GPU 4U SERVER/TOWER WORKSTATION
- Flexible form factor
- 4 PCI-E GPUs + 3 additional slots for IB, NVMe
- High capacity storage, up to 112TB

NUMBERSMASHER 1U TESLA 4-GPU SERVER
- Dense and cost-effective
- 4 PCI-E GPUs + 2 PCI-E x16 slots
- InfiniBand and NVMe Storage (Optional)
MAXIMUM GPU CAPACITY

OCTOPUTER 4U SERVER WITH A SINGLE PCI-EXPRESS TREE

This Octoputer is available with 8 GPUs + InfiniBand adapters for GPU-Direct RDMA or 10 GPUs for maximum GPU capacity. The single PCI-Express tree ensures low latency and high bandwidth for all GPU peer-to-peer transfers.
SCALE UP, WORLD RECORD AI PERFORMANCE
NVIDIA DGX-2™ AI APPLIANCE

16 TESLA GPUS, UNIFIED MEMORY WITH NVIDIA NVSWITCH™

16 fully interconnected Tesla V100 GPUs, 2 TensorPFLOPS and 512GB of unified GPU memory space provide the power to tackle the world’s biggest deep learning and AI challenges. DGX-2 also utilizes NVSwitch and enhanced NVLink technology to ensure seamless data movement—enabling record-breaking performance.
SCALE OUT AI PERFORMANCE
NVIDIA® TESLA® V100 8-GPU SERVERS WITH NVLINK™

DGX-1™ Supercomputer
DGX-1 is built and supported by NVIDIA, an ideal solution for deep learning and high performance data analytics. It includes all the software needed for rapid development and deployment.

Octoputer™ with NVLink
With 2 CPUs and 8 NVLink-connected GPUs, this Octoputer is ideal for large-memory, communication-intensive applications. Optional Mellanox InfiniBand and NVMe storage ensure rapid access to data.
WORLD'S SIMPLEST GPU PROGRAMMING
POWER SYSTEM AC922 WITH NVIDIA TESLA V100

2 IBM® POWER® WITH NVLINK CPUS + 4/6 NVIDIA TESLA V100 GPUS
The only platform that provides NVLink between CPUs and GPUs—and allows data to flow throughout the system without bottlenecks—while adding full CPU:GPU coherency for the world's simplest GPU programming. Build your mini-CORAL: these same systems are deployed in the leadership supercomputers at ORNL & LLNL.
MAXIMUM NVLINK DENSITY
NUMBERSMASHER 1U GPU SERVER WITH NVLINK INTERCONNECT

This system provides the highest GPU density available. With full NVLink connectivity between all GPUs, it enables the highest performance for applications leveraging peer-to-peer GPU communication or GPU-Direct.
AI WORKSTATION APPLIANCE
NVIDIA DGX-STATION™

INTEGRATED WITH NVIDIA-SUPPORTED SOFTWARE, CONTAINERS

DGX-Station with Tesla V100 delivers NVIDIA AI tools, an easy-to-use containerized software platform, and automatic framework updates to deep-learning and AI professionals. Built on fully interconnected Tesla V100 GPUs, DGX-Station provides stunning performance atop of software simplicity.
Visualization, AI, and Compute

WhisperStation™ - Quadro GV100

4 NVIDIA Quadro GPUs + 2 Xeon CPUs

Visualization, deep learning/AI, & computation converge with WhisperStation. Quadro GV100 GPUs provide the actively-cooled equivalent of Tesla V100. WhisperStation is the only customizable professional workstation that provides incredible computational horsepower, unmatched rendering fidelity, and outstanding overall performance in a quiet configuration. Also available with Quadro RTX.
COST-EFFECTIVE GPU COMPUTE
NUMBERSMASHER 1U 2 GPU, 1 CPU

1 INTEL XEON CPU + 2 NVIDIA TESLA GPUS
Deliver the most cost effective density for highly accelerated applications. Pair a cost-effective single CPU socket with 2 Tesla GPUs in a compact 1U footprint. Our most balanced compute node for highly accelerated workloads and a single PCI-E root complex.
HIGHLY GPU ACCELERATED
NUMBERSMasher 1U, 4 GPU 1 CPU

1 INTEL XEON CPU + 4 TESLA GPUs
For when computation is overwhelmingly offloaded to GPU accelerators, this platform packs 4 GPUs and 1 CPU into a 1U footprint—as much balance towards GPU performance as possible. Deliver the greatest GPU density and utilize GPU-direct RDMA.
MAXIMUM MEMORY
NUMBERSMASHER 8-CPU + 8-GPU SMP

Solve huge in-memory computations with up to 12TB system memory! Ideal for many CPU threads plus GPU acceleration, this appliance will provide the highest performance for any data intensive SMP application.
HIGHEST GPU:CPU DENSITY IN 1 SERVER
NAVION® 2U GPU WITH 8 GPUS

The highest GPU:CPU ratio available for overwhelmingly accelerated applications. AMD EPYC’s superior I/O capability enhances accelerated computing. By pairing just a single AMD EPYC CPU with 8 Tesla GPUs, you can allocate the maximum portion of your budget where it delivers most—to the greatest accelerated computing performance boost.
Microway designs and manufactures fully-integrated clusters and high performance workstations. For 35 years, we have produced state-of-the-art technical computing solutions for scientists, researchers and engineers.

Get in touch with our experts - we take pride in finding the best solution for your HPC needs.