AMAX GPU Solutions for Higher Education and Research
Scalable compute for AI, simulation, and data-driven discovery.

AMAX ENGINEERING

AMAX designs and builds GPU infrastructure that meets the unique demands of academic and research environments. From configuration to deployment, our engineering teams deliver reliable, efficient systems that scale with institutional growth.

Scalable Infrastructure for Academic Discovery

AMAX GPU Solutions for Higher Education and Research accelerate AI, data science, and simulation workloads across universities and laboratories. These systems power model training, visualization, and computation for disciplines such as life sciences, engineering, and climate research.

Key Features for Higher Education

- **High-Performance Compute:** NVIDIA Blackwell Ultra and NVIDIA RTX Blackwell architectures deliver faster AI training, simulation, and analytics across academic workloads.
- **Multi-User Resource Sharing:** Multi-Instance GPU (MIG) technology enables secure, flexible access for multiple students, labs, or departments.
- **Scalable Clustering and Networking:** Supports InfiniBand and 800GbE interconnects for distributed HPC and AI environments.
- **Energy-Efficient Operation:** Advanced cooling and optimized power design lower operational costs for dense research clusters.
- **Software Ecosystem Compatibility:** Ready for PyTorch, TensorFlow, MATLAB, and HPC frameworks used in AI and scientific computing.

Performance That Fits Your Research

AMAX helps institutions right-size their computing needs with solutions ranging from GPU workstations to high-density research clusters. Each system is engineered to deliver the best balance of performance, scalability, and cost efficiency, enabling researchers and educators to make the most of their available resources while supporting future growth.

AMAX // SOLUTION BRIEF

AMAX AceleMax® AXG-828U with HGX B300

8U rackmount server with high GPU density for large-scale AI training and inference.
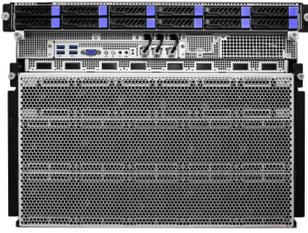
AMAX AceleMax® AXG-428AG	
CPU	Dual Socket Intel® Xeon® 6700E/6700P series processors
GPU	NVIDIA HGX™ B300 8-GPU with NVSwitch
Cooling	High-efficiency air cooling
System Memory	Up to 32 DDR5 DIMM slots, up to 6400 MT/s
Networking	8x OSFP 800 Gbps InfiniBand ports
Storage	Up to 12x2.5" hot swap bays, plus 1x M.2

AMAX AceleMax® AXG-428AG

NVIDIA MGX™ server built for maximum flexibility and throughput in AI workloads.

AMAX AceleMax® AXG-428AG	
CPU	Dual Socket AMD EPYC™ 9005 Series processors (up to 5GHz)
GPU	Up to 8× NVIDIA RTX PRO™ 6000 Blackwell Server Edition, L40S, or H200 NVL GPUs
Cooling	High-efficiency air cooling
System Memory	32 DDR5 DIMM slots, up to 5200 MT/s (1DPC)
Networking	5× PCIe 5.0 x16 slots for NICs
Storage	8× E1.S NVMe SSD bays, plus 2× M.2

AMAX LiquidMax® LX-5b Workstation with RTX PRO™ 6000 Blackwell

Ultra-quiet GPU workstation designed for high-performance AI and deep learning applications.

AMAX LiquidMax® LX-5b Workstation	
CPU	Single / Dual Socket Intel® Xeon® series processors or Single Socket AMD processor
GPU	Up to 4x NVIDIA RTX Pro 6000 Blackwell
Cooling	Full liquid cooling for both CPU and GPU
System Memory	Up to 16 DDR5 DIMM slots
Networking	2 x 10GbE LAN ports (RJ45)
Storage	Up to 10 x SATA 6Gb/s ports, 2 x M.2 connector (2280, 22110)

NVIDIA DGX Spark™

DGX personal AI computer with Grace Blackwell architecture for early-stage AI development, prototyping and testing.

NVIDIA DGX Spark™	
CPU	20 core Arm, 10 Cortex-X925 + 10 Cortex-A725 Arm
GPU	NVIDIA Blackwell Architecture
Cooling	High-efficiency air cooling
System Memory	128 GB LPDDR5x, unified system memory
Networking	ConnectX-7 Smart NIC
Storage	1 or 4 TB NVME.M2 with self-encryption

Visit www.amax.com/contact to get started today

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