AMAX GPU Solutions for the Public Sector

Advancing national capabilities for sovereign AI.

NVIDIA Elite Partner

AMAX ENGINEERING

AMAX builds secure, high-performance GPU infrastructure for the public sector. Our engineering teams deliver reliable, efficient systems designed to meet the demands of national AI initiatives.

Secure Infrastructure for Research and Development

AMAX GPU Solutions for the Public Sector provide the computing foundation governments and public institutions need to advance national AI strategies, scientific research, and digital services. These systems deliver secure, high-performance infrastructure that supports data analytics, modeling, and generative AI across departments and research centers.

Key Features for Public Sector Computing

- **Trusted Supply Chain:** Built through verified sourcing with full component traceability, firmware security, and lifecycle validation for compliance and reliability.
- **Data Sovereignty:** Designed to keep sensitive data within local infrastructure, reducing external dependencies and enabling domestic AI development.
- **Scalable Architecture:** Supports workloads ranging from AI research clusters and analytics platforms to departmental compute nodes.
- **Energy Efficiency:** Liquid and high-efficiency air cooling reduce power use while maintaining consistent performance for large deployments.
- **AI Software Compatibility:** Optimized for frameworks including PyTorch, TensorFlow, and Omniverse for analytics, simulation, and generative AI workloads.

Enabling Sovereign AI

AMAX systems help governments and public organizations develop sovereign AI capabilities by aligning infrastructure, data, and workforce within secure environments. By localizing AI training and deployment, nations can build models that reflect their own languages, cultures, and priorities while maintaining control over critical data and compute resources. With in-region manufacturing across the U.S., EMEA, and APAC, AMAX supports localized deployment and compliance with regional requirements.

AMAX // SOLUTION BRIEF

AMAX RackScale 32 with NVIDIA HGX™ B300 (Air-Cooled)

Air-cooled, rack-scale solution built on the NVIDIA reference architecture, delivering high-performance AI computing with NVIDIA HGX B300 GPUs, high-speed interconnects, and offering up to 9.2TB HBM3e memory per rack.

| RackScale 32 with NVIDIA HGX™ B300 GPU	
CPU	Dual Socket Intel® Xeon® Scalable processors
GPU	32x NVIDIA Blackwell Ultra GPUs
Cooling	High-efficiency air cooling
GPU Memory	Up to 9.2TB total HBM3e GPU memory per rack
Networking	NVIDIA NDR 800Gbps InfiniBand switches
Storage	High Performance Storage Appliance
Total FP4 Tensor Core	576 PFLOPS
Total FP8 Tensor Core	288 PFLOPS

AMAX LiquidMax® RackScale 64 (Liquid-Cooled)

High-density, fully liquid-cooled rack solution designed to support advanced AI training and inference. With up to 64x NVIDIA HGX B300 GPUs, this system delivers maximum performance and efficient thermal management in a compact footprint.

LiquidMax® RackScale 64 with NVIDIA HGX™ B300 GPU	
CPU	Dual Socket Intel® Xeon® Scalable processors
GPU	64x NVIDIA Blackwell Ultra GPUs
Cooling	Direct liquid cooling, CDU and manifold included
GPU Memory	18.4TB total HBM3e memory
Networking	Integrated power distribution, CDU with dual hot-swap pumps
Storage	High Performance Storage Appliance
Total FP4 Tensor Core	1152 PFLOPS
Total FP8 Tensor Core	576 PFLOPS

AMAX RackScale 72 with NVIDIA GB300 NVL72

48RU liquid-to-air cooled rack powered by NVIDIA Grace Blackwell Ultra Superchips, delivering high-performance AI compute with rapid deployment without requiring facility liquid cooling upgrades.
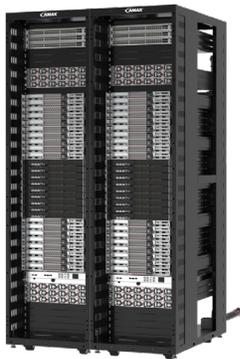
AMAX RackScale 72 with NVIDIA GB300 NVL72	
GPU	NVIDIA GB300 Grace Blackwell Superchip (72 per rack)
Cooling	Direct liquid cooling with rack-integrated CDU and manifolds
Power	6 × 1U 33 kW (6 × 5.5 kW PSUs)
Networking	Integrated power distribution, CDU with dual hot-swap pumps
Storage	High Performance Storage Appliance
Total FP4 Tensor Core	1152 PFLOPS
Total FP8 Tensor Core	576 PFLOPS

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

AMAX // SOLUTION BRIEF