AMAX AI Factory Built for Enterprise

High-density accelerated compute, proven deployment expertise, and cloud-native patterns for mission-critical AI workloads

AMAX ENGINEERING

At AMAX, engineering is at the heart of every AI Factory we deliver. We architect and integrate GPU compute, accelerated networking, high-performance storage and enterprise AI software into complete solutions validated for production, ready for diverse AI workloads at any scale.

AMAX Transforms AI Ambition Into Production Reality

The AMAX AI Factory empowers enterprises to move from AI pilots to full-scale production with GPU-accelerated infrastructure engineered for mission-critical workloads. Repeatable deployment architectures and predictable scaling enable enterprises to expand AI capacity with confidence while meeting strict security, compliance, and data sovereignty requirements. AMAX delivers validated, rack-scale platforms with integrated compute, high-performance networking, storage, advanced cooling, and unified management.

Minimize Integration Risk. Maximize Production Readiness.

AMAX simplifies integration to accelerate production readiness. Our professional services and deployment expertise reduce complexity and mitigate risk Standardized, fully integrated architectures across compute, networking, storage, liquid cooling, and management enable reliable, scalable deployments ready to support AI growth anywhere in the world.

AMAX ® Services

Assessment, Architecture, Rack Integration, Validation, Expansion Planning

Layer	Description
Thermal & Power Readiness	Air / Liquid-Cooled Readiness, Power Planning, Rack-level Thermal Validation
Compute Layer	High-Density GPU servers, Rack-Scale Systems,Training & Inference Nodes
Network Fabric Layer	High Bandwidth, Low Latency, Scale-Out Topology, Ethernet or Infiniband
Storage & Data Layer	Datasets, Feature/Vector Stores, High-Throughput Pipelines
Platform & Control	Kubernetes Runtime, GPU Enablement, Provisioning, Observability, Policy
AI Software Layer	NVIDIA AI Enterprise, NIM/NeMo™ Microservices, Frameworks, Model Runtime
Use Cases	LLM Inference, RAG Assistants, Vision, Knowledge Search, Simulation/Digital Twins

---

AMAX ®   // **SOLUTION BRIEF**

Performance Validation and Deployment Services

AMAX provides benchmarking, validation, and deployment services for NVIDIA-based platforms including DGX systems, HGX platforms, MGX server options, and rack-scale deployments. Workload-aligned benchmarking confirms training scalability, inference performance, and storage throughput before deployment — reducing integration risk and avoiding costly post-deployment adjustments. Configurations are validated for production readiness through GPU health and burn-in testing, network fabric verification, storage profiling, and acceptance testing. Deployment services include site readiness assessment, architecture design, rack integration, system commissioning, and cloud-to-on-premises transitions with cloud-native enablement.

AMAX® AI Factory

Training • **Fine Tuning** • **Inference** • **RAG** • **Vision** • **Agents**

Building Blocks

NVIDIA DGX™

NVIDIA MGX™

NVIDIA HGX™

At AMAX, engineering drives everything we do.

AMAX brings deep engineering expertise to design and deploy AI infrastructure that performs from day one and scales with you over time. We are the right partner to help you build, scale, and operationalize your Enterprise AI Factory with confidence.

AMAX // **SOLUTION BRIEF**