



AMAX AI Factory Solutions with NVIDIA HGX™ B300

Rack-scale AI infrastructure with deployment validation

Production-Ready AI Factories with AMAX

AMAX AI Factory provides complete, enterprise-ready solutions that simplify deploying AI at scale, accelerating the path from design to deployment and from investment to measurable outcomes. AMAX integrates the full stack required for production AI in a single solution: accelerated compute, high-speed networking, scalable storage, NVIDIA AI software, and deployment services - reducing integration complexity and time to operational readiness.

Maximize Performance with AMAX

AMAX AI Factory platforms are validated for performance, reliability, and end-to-end compatibility with the NVIDIA AI Enterprise software suite. This validated foundation enables deployment of production-ready, agentic AI systems faster across industries including healthcare, neo-cloud providers, AI startups, financial services, public sector, manufacturing, and research.

AMAX AI Factory Advantage with NVIDIA HGX B300

AMAX delivers HGX B300 as a production-ready AI Factory building block, enabling AI on day one and eliminating lengthy onboarding and activation times. Designed for high AI Factory output, NVIDIA HGX B300 increases token throughput and reduces time-to-insight while scaling efficiently from single systems to rack-scale architectures.

With high-bandwidth GPU-to-GPU connectivity and large HBM3e memory, NVIDIA HGX B300 accelerates both training and inference, supporting responsive user experiences and high utilization across demanding AI workloads.

AMAX AI Factory

Enhance productivity

Accelerate time-to-value

Optimize total cost

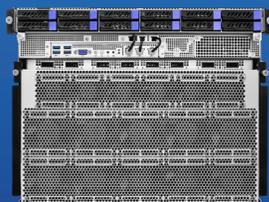
Maximize ROI on AI initiatives

Enhanced security & compliance

AMAX AI Infrastructure



RackScale 32 with NVIDIA HGX B300



NVIDIA HGX B300

AMAX Professional Services

Site readiness & infrastructure assessment

Architecture & solution design

Burn-in & validation testing

Rack integration & deployment

Remote monitoring

Ongoing support & expansion planning

AI Software Stack

NVIDIA AI Enterprise & NVIDIA Omniverse™

NVIDIA Mission Control & NVIDIA Run:AI





Enterprise Scale-Out Architecture and Network Fabric

AMAX NVIDIA HGX B300 platforms are designed to scale from single-system deployments to rack-scale and multi-rack AI factory clusters. As clusters grow, high-bandwidth interconnects and low-latency networking enable efficient communication and data movement across nodes for distributed training and inference.

For scale-out networking, AMAX implements NVIDIA® ConnectX® networking with Spectrum-X™ Ethernet or NVIDIA Quantum-2 InfiniBand. The resulting fabric supports RDMA, congestion management, and multi-node data flow to maintain predictable performance as cluster size and utilization increase.

Operational Readiness: Power, Cooling, and Thermal Validation

AMAX validates power, cooling and thermal readiness for NVIDIA HGX B300 deployments to support sustained training and inference performance in high-density environments. Supported configurations include air-cooled and liquid-cooled designs, engineered to maintain thermal stability and reduce the risk of performance degradation under continuous operation.

Thermal performance is validated through system-level testing, including sustained load operation and fluid flow verification, to confirm temperature stability under production conditions.

Deployment and Lifecycle Services

AMAX Engineering provides the following services throughout the AI factory lifecycle:

- System configuration and engineering optimization
- Factory assembly, integration, and wiring
- Burn-in testing and workload stress validation
- Firmware, BIOS, and network alignment
- Rack integration and pre-deployment certification
- Ongoing maintenance support and capacity planning

By embedding these services into the delivery process, AMAX Engineering helps organizations reduce deployment complexity and ensure long-term operational consistency.

For customers awaiting permanent data center capacity, AMAX offers HostMax™, an interim hosting service that supports both air-cooled and liquid-cooled AI Factory systems. HostMax enables newly built solutions to go live immediately after assembly, with secure remote access and dedicated AMAX engineering support.

Validated Foundation for Production AI

AI factories built on NVIDIA HGX B300 and delivered by AMAX provide a scalable, validated platform for continuous AI workloads. By integrating rack-scale compute with networking, high-performance data infrastructure, thermal readiness, and lifecycle services, AMAX Engineering enables organizations to operate AI infrastructure with predictable performance, efficient scaling, and long-term reliability.

Ready to build your next-generation AI Factory?

Talk to AMAX about deploying NVIDIA HGX B300 today.



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