



AMAX AI Factory Solutions with NVIDIA RTX PRO 6000

Validated AI Infrastructure for faster enterprise deployment

Accelerate Time-to-Production with AMAX

AMAX AI Factory provides complete, enterprise-ready solutions that simplify deploying AI inference at scale, accelerating the path from design to deployment and from investment to measurable outcomes. AMAX integrates the full stack required for AI inference 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.

AMAX AI Factory Advantage with NVIDIA RTX PRO™ 6000

AMAX delivers the NVIDIA RTX PRO 6000 Blackwell Server Edition as a production-ready AI Factory building block, enabling AI on day one and eliminating lengthy onboarding and activation times. Built as a universal data center GPU, RTX PRO 6000 delivers AI and visual computing capabilities to accelerate enterprise workloads, from AI inference, agentic AI and physical AI to 3D rendering and graphics.

Equipped with 96GB of ultra-fast GDDR7 memory, NVIDIA RTX PRO 6000 Blackwell Server Edition offers unmatched performance-per-dollar and flexibility for enterprises looking to deploy multi-workload accelerated infrastructure.

Validated for Enterprise AI

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

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 RTX PRO 6000



4U MGX NVIDIA RTX PRO 6000 GPU Server

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



Scale-Out Architecture and Network Fabric Design

AMAX AI Factory solutions built on the NVIDIA RTX PRO 6000 Blackwell Server Edition are designed to scale from single-system deployments to rack-scale configurations. As clusters grow, high-bandwidth interconnects and low-latency networking enable efficient communication and data movement across nodes for distributed inference, while supporting multi-workload enterprise use cases, including agentic AI, physical AI, and advanced visual computing.

For scale-out environments, NVIDIA RTX PRO 6000 based systems can be deployed with NVIDIA Spectrum-X™ Ethernet or NVIDIA Quantum InfiniBand, depending on the rack design and the customer's network standard. These fabrics supports RDMA, congestion management, and multi-node data flow to maintain performance as cluster size and utilization increase.

Operational Readiness for Continuous Inference

AMAX validates power, cooling and thermal readiness for NVIDIA RTX PRO 6000 Blackwell Server Edition solution deployments to support sustained 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.

Inference-Ready AI Factory Foundation

AI factories built on NVIDIA RTX PRO 6000 Blackwell Server Edition 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 AI Factory solutions with NVIDIA RTX PRO 6000 Blackwell Server Edition GPUs.

