

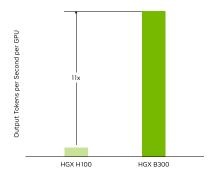
AI/LLM RackScale Solutions

Purpose-built GPU solutions for Enterprise Al

AMAX ENGINEERING

With 40 years of engineering expertise, our team specializes in transforming standard IT components into high-performance computing solutions with optimized thermal, electrical, mechanical, and networking design.

Llama 3.1 405B Real-Time Throughput



AI Infrastructure and Validated Design

AMAX RackScale GPU solutions are built for AI and LLM workloads that require extreme GPU density, large memory capacity, and high-speed I/O. They combine multi-GPU servers, high-bandwidth in-node fabric, 400G networking, efficient cooling, and monitored power distribution to support long training runs and high-throughput inference with consistent performance.

Engineered for Modern AI/LLM Workloads

- Up to 1152 Tensor/Transformer Cores: Boost LLM-specific operations like attention layers for faster compute.
- Up to 18.4TB HBM Memory: Handle massive models and long context windows without bottlenecks.
- In-node Bandwidth: NVLink/NVSwitch ensures GPUs stay fully utilized in large-scale AI/LLM training.
- 800G Networking: Rapid multi-node synchronization for distributed AI/LLM workloads.
- Energy Efficient Cooling: Maintain stable AI/LLM performance while reducing energy costs.

Faster Throughput with NVIDIA Blackwell Ultra

AMAX designs infrastructure for training and serving large language models, built to process massive datasets and keep GPUs synchronized across nodes. RackScale GPU solutions with NVIDIA HGXTM B300 deliver up to 11× faster real-time throughput for Llama 3.1 405B models compared to HGX H100, accelerating development cycles and reducing time to results.



AI/LLM RackScale Solutions

AMAX AceleMax® AI POD 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.



| AceleMax® AI POD with NVIDIA HGX™ B300 | |
|--|--|
| 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 | NVIDIA NDR 800Gbps InfiniBand switches |
| Storage | High Performance Storage Appliance |
| Total FP4 Tensor Core | 1152 PFLOPS |
| Total FP8 Tensor Core | 576 PFLOPS |

End-to-End Deployment Services

AMAX delivers both liquid-cooled and air-cooled rack-scale solutions engineered, assembled, and validated before shipment. Each rack undergoes a site survey, full burn-in, performance benchmarking, and environmental testing to ensure readiness for AI/LLM training and inference. Remote monitoring and ongoing support options help maintain peak performance and uptime. For customers awaiting permanent data center space, HostMaxTM provides temporary hosting so systems can go live immediately after build.

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

