Supermicro Super AI Station

NVIDIA GB300 Performance. Supermicro Ingenuity. From Desk to Data Center



The ultimate liquid-cooled local AI supercomputer

- Cost-effective GB300-class compute and AI factory on-ramp
- Delivers up to 20 PFLOPS of FP4 performance with 748GB total coherent memory to handle models with up to 1 trillion parameters
- Flexible deployment: deskside in offices or rack-mounted in server rooms or data centers with easy upscaling and clustering options
- Optional NVIDIA RTX PRO™ Blackwell GPU for graphics rendering, simulation, and physical AI workloads
- Serviceable, closed-loop liquid cooled system for quiet operation and 24/7 reliability
- Utilizes a conventional NEMA 5-20 power outlet

The Definitive AI Development Solution

Supermicro's Super AI Station delivers data-center-grade NVIDIA GB300 performance in a flexible deskside or rack-mounted form factor, with a serviceable, closed-loop liquid-cooled architecture for quiet operation, 24/7 reliability, and seamlessly scaling from office to data center. The Super AI Station is the ultimate AI factory on-ramp and serves as a full-stack solution for AI workloads. It is optimized for the NVIDIA AI software stack, allowing seamless scaling into Blackwell-based production environments with no re-architecting.

Start from the Deskside, Expand to AI Factories

The Super AI Station is the perfect entry point and on-ramp to AI factories for deep-tech or AI startups, higher education and research labs, and enterprises of any scale. It can be deployed as a deskside tower or as a 5U rackmount server for cluster scale deployment. Integrated dual port 400Gbps high-speed networking via NVIDIA's ConnectX®-8 SuperNIC™ enables clustering of multiple Super AI Stations together and connection to external storage servers for high-speed data ingestion, and a serviceable closed loop, liquid cooling architecture enables near-silent operation around the clock while reducing costly downtime and extending system longevity.

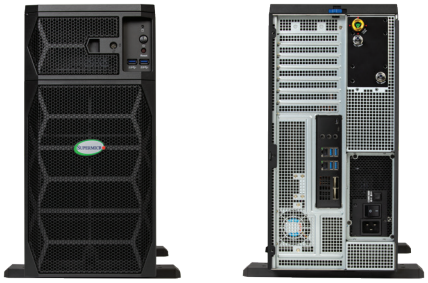
Data Center-Level Performance in a Local AI Supercomputer

Built on the same GB300 architecture powering large AI factories, the Super AI Station is purpose-built for autonomous agents, AI development, AI inference, and data science workloads. A 748GB coherent memory pool and up to 20 PFLOPS FP4 AI performance enables inference on trillion-parameter frontier models, making the Super AI Station the ideal solution for running always-on agents locally. Optional support for an NVIDIA RTX PRO™ 6000 Workstation Edition or Max-Q Workstation Edition GPU also enables graphical rendering and simulation for physical AI and robotics applications.

Build Agentic AI Locally with Complete Control

Purpose-built for local AI development, the Super AI Station empowers developers to run AI agents and models securely with complete data sovereignty and total control by storing and processing proprietary data on-prem. With robust endpoint security, the Super AI Station ensures maximum data protection for deployments in even the most stringent environments. Teams and neoclouds can also host multiple secure user instances simultaneously, with support for up to seven Multi-Instance GPU (MIG) instances on a single system.

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Supermicro Super AI Station	ARS-511GD-NB-LCC
Form Factor	5U Tower
Processor & GPU Support	NVIDIA GB300 Blackwell Ultra Desktop Superchip, featuring: • 1 NVIDIA Grace™ 72-core ARM Neoverse V2 CPU • 1 NVIDIA Blackwell Ultra (B300) GPU Optional: 1 NVIDIA Blackwell GPU for graphics rendering
Memory	Total Coherent Memory: 748GB • System: 496GB LPDDR5X • GPU: 252GB HBM3e
Storage	4 M.2 PCIe 5.0 NVMe
Networking	Dual-port QSFP 400GbE LAN via NVIDIA ConnectX®-8 SuperNIC™ 1GbE BMC LAN 10GbE LAN
Power Supply	1600W Titanium (94%) Level Power Supply Requires NEMA 5-20 outlet (in North America)
Cooling	Closed-loop liquid cooling
Operating System	Ubuntu 24.04 LTS with NVIDIA AI Developer Tools

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