DESKTOP AI SUPERCOMPUTER

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.

NVIDIA DGX Spark

Built on the NVIDIA GB10 Grace Blackwell Superchip, NVIDIA DGX™ Spark delivers up to 1 petaFLOP of AI performance and 128GB coherent unified memory in a compact system designed for local development of large AI models.

Key Features

- Grace Blackwell Superchip with up to 1 petaFLOP of AI performance
- 128GB coherent unified system memory
- Supports models up to 200B parameters
- Cluster two systems to run up to 405B parameter models

Built for AI at Any Scale

NVIDIA DGX Spark provides a compact platform for developers to prototype, fine-tune, and inference the latest generation of reasoning AI models using the NVIDIA AI software stack. Workloads can scale effortlessly from the desktop to NVIDIA-accelerated infrastructure, including NVIDIA DGX BasePOD™ and NVIDIA DGX SuperPOD™, for final tuning and deployment.

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Specifications

NVIDIA DGX™ Spark Specifications	
Processor	NVIDIA Grace Blackwell
GPU	NVIDIA Blackwell Architecture
System Memory	128 GB LPDDR5x, coherent unified system memory
Performance	Up to 1 petaFLOP
Ethernet	1x RJ-45 connector 10 GbE
Networking	NVIDIA ConnectX®-7 NIC
Model Support	Support for up to 200 billion parameter models
OS	NVIDIA DGX™ OS
Storage	1 or 4 TB NVME.M2 with self-encryption
USB	4x USB TypeC
Display Connectors	1x HDMI 2.1a
System Dimensions	150 mm L x 150 mm W x 50.5 mm H

UNLOCK LOCAL AI PERFORMANCE WITH NVIDIA DGX Spark

Grace Blackwell Architecture

NVIDIA DGX Spark features the NVIDIA GB10 Superchip with up to 1,000 AI TOPS at FP4 and 128GB of coherent unified memory to run models up to 200 billion parameters. Connect two systems with NVIDIA ConnectX® networking to support models up to 405 billion.

AI Solutions by AMAX

AMAX is a global provider of high-performance computing solutions, specializing in AI, HPC, and data center integration. As an NVIDIA Elite Partner, we deliver fully integrated NVIDIA DGX™ systems with tailored deployment services, engineering support, and infrastructure expertise to help organizations accelerate AI development from desktop to production scale.

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