NVIDIA DGX™ Spark

NVIDIA GB10 Grace Blackwell DGX personal AI computer, designed to build and run AI

Features

- Built on NVIDIA GB10 Grace Blackwell Superchip
- NVIDIA Blackwell GPU with fifth-generation Tensor Core technology
- NVIDIA Grace CPU with 20-core high-performance Arm architecture
- Up to 1000 TOPS of AI performance using FP4
- 128 GB of coherent, unified system memory
- Support for up to 200 billion parameter models
- NVIDIA ConnectX™ networking to link two systems to work with models up to 405 billion parameters
- Up to 4 TB of NVMe storage
- Compact desktop form factor

Applications

- AI Model Prototyping
- AI Model Fine Tuning
- Inference
- Data Science
- Edge Applications
- Computer Vision
- AI Video and Image Content Generation.

Specifications	
Architecture	• NVIDIA Grace Blackwell
GPU	• NVIDIA Blackwell Architecture • NVIDIA GB10 Grace Blackwell Superchip
CPU	• NVIDIA Grace CPU 20 core Arm, 10 Cortex-X925 • + 10 Cortex-A725 Arm
CUDA Cores	• NVIDIA Blackwell Generation
Tensor Cores	• 5th Generation
RT Cores	• 4th Generation
Tensor Performance	• 1000 AI TOPS
System Memory	• 128 GB LPDDR5x, unified system memory
Memory Interface	• 256-bit
Memory Bandwidth	• 273 GB/s
Storage	• 1 or 4 TB NVME.M2 with self-encryption
USB	• 4x USB Type C
Ethernet	• 1x RJ-45 connector • 10 GbE
NIC	• ConnectX-7 Smart NIC
Wi-Fi	• WiFi 7
Bluetooth	• BT 5.3 w/LE
Audio-output	• HDMI multichannel audio output
Power Consumption	• TBD

Specifications	
Display Connectors	• 1x HDMI 2.1a
NVENC | NVDEC	• 1x | 1x
OS	• NVIDIA DGX™ OS
System Dimensions	• 150 mm L x 150 mm W x 50.5 mm H • 5.91 in (L) × 5.91 in (W) × 1.99 in (H)
System Weight	• 1.2 kg

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