Built for Developers. Powered for AI.

MSI EdgeXpert

Personal AI Supercomputer

based on NVIDIA® DGX™ Spark GB10 Platform

Next-Level AI Power, Right at Your Desk

The MSI EdgeXpert AI Supercomputer redefines desktop AI computing, delivering petaflop-scale performance through the cutting-edge NVIDIA® GB10 Grace Blackwell Superchip–the same powerhouse at the core of NVIDIA DGX Spark. Purpose-built for developers, AI researchers, and data scientists, the EdgeXpert empowers local AI development with unmatched performance, scalability, and advanced features–all in a compact, desktop-ready form.

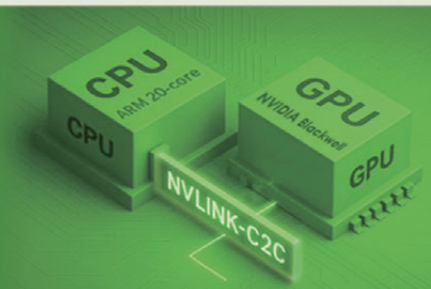
NVIDIA® Grace Blackwell Architecture

ARM 20-core CPU & AI Blackwell GPU

Optimizes data preprocessing and orchestration to accelerate model tuning and enable real-time inference with greater efficiency.

NVLink®-C2C Technology

Offers a seamless CPU+GPU memory model with up to five times the bandwidth of PCIe 5.0, ensuring ultra-fast data access and transfer.



Unmatched AI Computing Power

Up to 1000 AI FLOPS (FP4, Sparse) Performance

Delivers blazing-fast performance for effortlessly running complex AI workloads at scale.

128 GB LPDDR5x, unified system memory

Provides the bandwidth and capacity needed for smooth model development, rapid experimentation, and high-efficiency inference.

Training and fine-tuning your own AI model, running LLMs form 200B to 405B parameters

Supports AI models with up to 200 billion parameters

With 128 GB of unified system memory, supports prototyping 15B AI models, fine-tuning models up to 70B, and efficiently running inference for 200B models, run LLMs locally for data security, low latency, cost control.

Stack via NVIDIA ConnectX: Large AI models &Performance

High-performance NVIDIA ConnectX networking enables two MSI EdgeXpert systems together to work with AI modes up to 405 billion parameters.

NVIDIA Blackwell GPU	20 core ARM CPU	CPU + GPU	1petaFlop AI Performance	128GB Unified System Memory

Ultra-compact AI Supercomputer

Portability

- Developers can carry MSI EdgeXpert to show their software application to customers, and conduct real-time demonstrations and inferences directly at the customer site.
- For scientific research, such as space stations, ocean research vessels or other natural observations, the portable edge computing machine makes it an ideal tool for collecting and analyzing data.

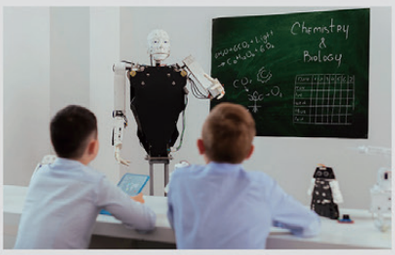
With Security Kensington Lock

Provides reliable anti-theft protection, especially for portable devices, so that users can use them safely in public places.

User Scenarios

Enterprise
Data scientist/AI developer

Education
Academic



Enthusiast
Independent AI developer

Low latency and high privacy redefine edge computing deployment

MSI EdgeXpert provides an excellent platform for developing edge applications with NVIDIA AI frameworks, including NVIDIA Isaac™, Metropolis, and many others.

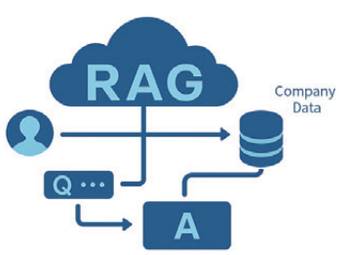
Healthcare and Biotechnology | **Retail** | **Surveillance** | **Scientific research** | **Education** | **Fin-Tech**

User Cases

RAG (Retrieval Augmented Generation)

Through RAG technology significantly enhances the knowledge and accuracy of AI models, enabling them to answer up-to-date or specialized questions and reduce hallucinations.

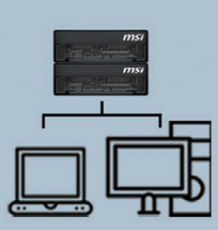
- **Application scenarios:** search engines, Q&A systems, knowledge base, legal research, speech recognition.



Competitor Analysis	Language Translation	Speech Recognition	Legal Documents	Knowledge Base
Enter	Enter	Enter	Enter	Enter

Deployment Mode

- **Network Connected for Existing Systems:** Connect to existing laptops and desktops through the network, integrate with the IT environment, and provide enterprise level AI computing scalability.
- **Standalone System with Display, Mouse & Keyboard:** Can directly connect to the display, mouse and keyboard to form a complete desktop computer setting, realizing independent AI computing in a personal form.



Network Connected for exisitng systems

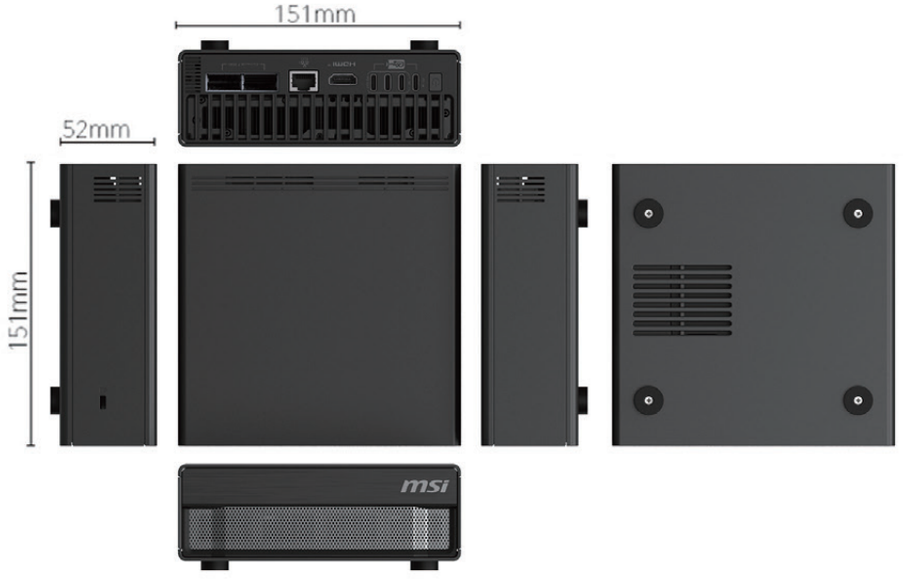
standalone system with display, mouse & keyboard

Seamless AI Model Scaling from Desktop to Cloud

Leverage NVIDIA's AI software architecture to seamlessly scale from desktop to NVIDIA DGX cloud or other NVIDIA accelerated data centers or cloudinfrastructures.

EdgeXpert
based on NVIDIA® DGX™ Spark GB10 Platform

Architecture	NVIDIA® Grace Blackwell
GPU	NVIDIA® Blackwell Architecture
CPU	20 core Arm, 10 Cortex-X925 + 10 Cortex-A725 Arm
Tensor Performance[1]	1000 AI FLOPS (FP4, Sparse)
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 3.2 Type C (up to 20Gb/s)
Ethernet	1x RJ-45 connector 10 GbE
NIC	Connect-X7 Smart NIC
Wi-Fi	WiFi 7
Bluetooth	BT 5.4
Audio-output	HDMI multichannel audio output
System Weight	1.2 kg
Display Connectors	1 x HDMI 2.1, 4x DP1.4a via USB-C
NVENC | NVDEC	1x | 1x
OS	NVIDIA® DGX™ OS
System Dimensions	151 mm L x 151 mm W x 52 mm H (1.19L)



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