Built for Developers. Powered for AI.

MSI EdgeXpert MS-C931

AI Supercomputer for Deep Learning
based on NVIDIA DGX™ Spark Platform

Next-Level AI Power, Right at Your Desk

The MSI EdgeXpert MS-C931 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 MS-C931 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 ComputingPower

1000 AI TOPS (FP4) Tensor Performance

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

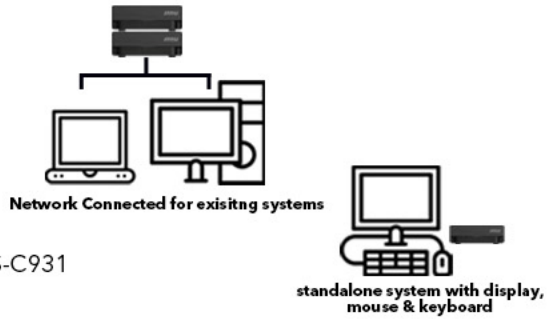
128 GB LPDDR5x, unified system memory

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

Running and scaling LLMs locally, from 200B to 405B parameters

Supports AI models with up to 200 billion parameters
Run LLMs locally for data security, low latency, cost control, and full AI workflow–prototyping, fine-tuning, and inference..

Stack via NVIDIA ConnectX: Large AI models &Performance
High-performance NVIDIA ConnectX networking enables two EdgeXpert MS-C931 systems together to work with AI modes up to 405 billion parameters.



20 core ARM CPU

CPU + GPU

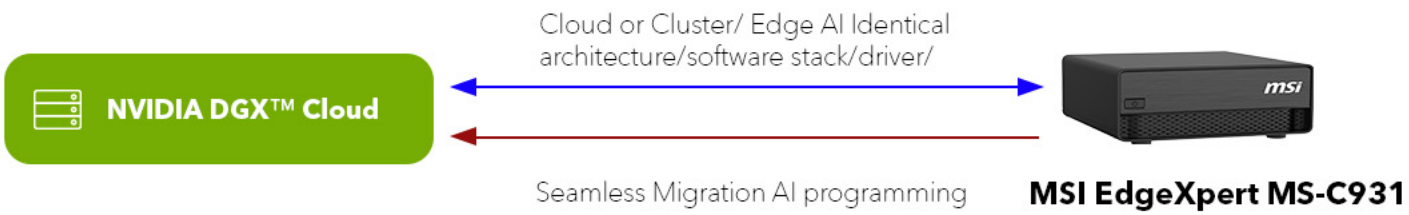
1,000 AI TOPS

128GB Unified System Memory

200B ~405B Parameters

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, just with minimal code changes.



Train your own AI mode

Prototyping

Build and Run AI at Your Desk

With the NVIDIA AI stack, EdgeXpert MS-C931 enables development, testing, and validation of AI models and applications.

Fine-tuning

Fine-tune AI models up to 70 billion parameters.

With 128GB of unified system memory, fine-tune models up to 70 billion parameters to customize AI models and solutions for specific needs and use cases.

Inference

Test, validate, and inference with AI models up to 200 billion parameters.

Fifth-gen Tensor Cores with FP4 support deliver up to 1,000 TOPS AI performance, paired with 128GB system memory to accelerate AI model inference, testing, and deployment on MSI EdgeXpert.

Use existing AI model + RAG

RAG (Retrieval Augmented Generation)

Through RAG technology, the knowledge capability and scope of an AI model can be significantly enhanced, enabling it to deliver more accurate and well-grounded responses.

- Answer up-to-date or highly specialized questions.
- Help reduce hallucinations.

User scenarios

Enterprise: Data scientist/AI developer

- AI developer who can train AI model or AI inference application in local, migrate to company DGX server, cloud or any accelerated infrastructure without tweaking or debugging.

Education: Colleague Researcher/ Student

- Practice AI training or develop AI inference application in classroom/lab. Migrate to school server room or AI laboratory to scale up.

ISV: Independent AI developer

- Start-up or SOHO can brew AI model or AI application in low-expense, upload to DGX cloud or any accelerated cloud to serve more customers.

Edge Applications

Develop edge applications with NVIDIA AI frameworks, including NVIDIA Isaac™, Metropolis, and many others

MSI EdgeXpert MS-C931provides an excellent platform for developing robotics, smart cities, and computer vision solutions. NVIDIA frameworks, including Isaac, Metropolis, and Holoscan enable developers to take advantage of the power of NVIDIA DGX Spark to quickly develop edge applications.

Healthcare and Biotechnology

Ideal for medical image analysis, genomics research, and personalized healthcare applications. It enhances data security and reduces dependence on cloud services.

Education and Research Institutions

A cost-effective, high-performance local AI platform enabling students and researchers to develop large-scale models without costly cloud resources.

Fin-Tech

Boosts decision-making in finance with high-performance computing for risk assessment, fraud detection, and high-frequency trading simulations.

Media and Creative Industries

Used for generative content creation, such as image generation, speech synthesis, and natural language processing.

EdgeXpert MS-C931 AI supercomputer based on NVIDIA® DGX™ Spark 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 TOPS (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	ConnectX-7 Smart NIC
Wi-Fi	WiFi 7
Bluetooth	BT 5.3
Audio-output	HDMI multichannel audio output
Display Connectors	1x HDMI 2.1a
NVENC | NVDEC	1x | 1x
OS	NVIDIA DGX™ OS
System Dimensions	151 mm L x 151 mm W x 52 mm H (1.19L)
System Weight	1.2 kg

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