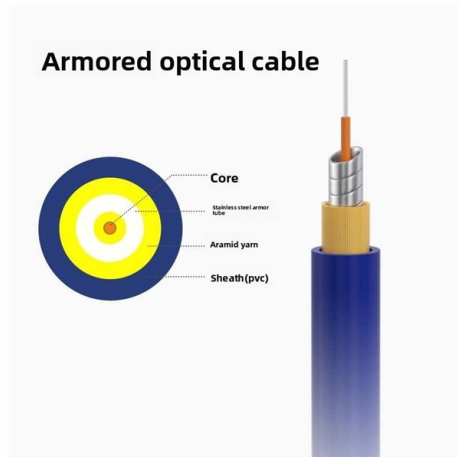


AI servers supporting NVIDIA



Overview

NVIDIA AI-Ready Servers From World's Leading System NVIDIA today announced the world's leading system manufacturers will deliver AI-ready servers that supp.

Key Takeaways

NVIDIA AI servers are high-performance, GPU-accelerated systems designed for enterprise AI, machine learning, and high-performance computing workloads. Overview

NVIDIA AI servers leverage NVIDIA Blackwell architecture GPUs to deliver exceptional performance and energy efficiency for AI workloads, including LLM inference, generative AI, computer vision, robotics, and industrial AI . These servers are available in multiple configurations, from single-GPU setups to high-density systems with up to eight GPUs, supporting both air and liquid cooling options . They integrate seamlessly with enterprise infrastructure and support NVIDIA networking technologies like BlueField-3 DPUs and ConnectX-8 SuperNICs for high-speed data transfer .

Key Server Models

- RTX PRO Servers: Equipped with RTX PRO 6000 or 4500 Blackwell GPUs, optimized for AI factories, digital twins, and multimodal AI applications .
- DGX Systems: Professional AI computing solutions for extreme performance, suitable for HPC and AI research .



- **MGX Platforms:** Modular servers supporting up to 8 GPUs, including H200 NVL and RTX PRO 6000, ideal for LLM training, generative AI, and real-time inference .
- Applications

NVIDIA AI servers are designed for enterprise-scale AI deployment, including:

- **AI Factories:** Purpose-built data centers for large-scale AI model training and inference, integrating software and hardware for maximum efficiency .
- **Generative AI & LLMs:** Accelerate training and inference of large language models and AI agents .
- **Industrial AI & Robotics:** Support digital twins, simulation, and synthetic data generation using NVIDIA Omniverse .
- **Scientific Computing & HPC:** Enable high-throughput simulations, analytics, and AI-driven research .

Deployment Options

- **On-Premises:** Enterprise-ready servers for integration into existing data centers .
- **Cloud or Rental:** Dedicated bare-metal servers with customizable CPUs, RAM, storage, and GPUs for flexible AI workloads .
- **Modular & Scalable:** MGX and RTX PRO servers allow incremental GPU expansion and modular upgrades to maximize ROI .

Performance & Scalability

NVIDIA AI servers are engineered for high throughput and energy efficiency, delivering more tokens per watt for AI workloads . They support multi-GPU parallel processing, large memory configurations (up to 1TB RAM), and high-speed NVMe storage (up to 16TB) to handle large datasets and complex models . These servers are compatible with major AI frameworks like TensorFlow and PyTorch, ensuring smooth deployment of AI applications .

Summary

NVIDIA AI servers provide a comprehensive, scalable, and high-performance platform for enterprises and research organizations to deploy AI at scale. Whether for LLM training, generative AI, industrial AI, or HPC, these servers combine cutting-edge GPUs, modular architectures, and enterprise-ready software to accelerate AI workloads efficiently and reliably .

Article Content

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NVIDIA GPU Servers for AI, Inference, Training, HPC

Pre-installed with AI/ML software stack (PyTorch, TensorFlow, CUDA). Powered by the latest NVIDIA Blackwell architecture, AMD

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AI Supercomputer Based on NVIDIA DGX™ Spark

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Dell PowerEdge Servers and NVIDIA GPUs

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NVIDIA-Certified Servers are tested and validated to deliver optimal performance for a wide range of workloads, including generative

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Optimized for AI training, inference, LLMs, and generative AI. Pre-installed with AI/ML software stack (PyTorch, TensorFlow, CUDA).

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Dell Technologies Unveils Next Generation Enterprise AI Solutions

The Dell high-performance solution built with Dell PowerScale, Dell Project Lightning and PowerEdge XE servers is

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NVIDIA AI Enterprise

NVIDIA AI Enterprise is an end-to-end platform for developing, deploying, and managing AI applications. It includes AI frameworks,

Introducing NVIDIA HGX H100: An Accelerated Server Platform for AI

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Accelerate enterprise workloads from agentic AI and LLM inference to industrial AI and digital twins with up to eight

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Dedicated GPU AI Servers for Demanding Machine Learning Tasks Rent AI servers equipped with NVIDIA GPU accelerators on

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The NVIDIA Enterprise AI Factory validated design provides guidance for developing, deploying, and managing agentic AI, physical

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NVIDIA AI servers deliver unparalleled performance for deep learning, machine learning, and AI workloads. Powered by cutting-edge

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