Lenovo NVIDIA Vera Rubin NVL72

Integrated Rack-Scale Acceleration for Advanced AI

A Rack-Scale Platform for the AI Era

Lenovo NVIDIA Vera Rubin NVL72 is a fully integrated rack-scale platform purpose-built for large-scale AI training, advanced reasoning, Agentic AI, and high-throughput inference. Combining 36 NVIDIA Vera CPUs and 72 NVIDIA Rubin GPUs within a unified architecture, the platform provides the foundation for organizations building next-generation AI factories, sovereign AI environments, and cloud-scale AI services.

Accelerate the Most Demanding AI Workloads

Designed for foundational model development and deployment, Vera Rubin NVL72 enables organizations to tackle increasingly complex AI challenges. The platform is optimized for large language model training, reasoning models, agentic AI systems, real-time inference, and emerging AI workloads that require massive compute density and high-bandwidth communication between GPUs.

Unified Rack-Scale AI Architecture

At the heart of the platform is a single NVLink™ domain connecting 72 NVIDIA Rubin GPUs through 9 NVIDIA NVLink switch trays and 36 NVIDIA NVLink 6 Switch chips.

Combined with 36 NVIDIA Vera CPUs, high-bandwidth networking, and a standardized rack-level design, the architecture delivers a scalable platform engineered for modern AI environments.

Integrated Infrastructure from Compute to Cooling

Vera Rubin NVL72 integrates compute resources, networking, management, power distribution, and cooling into a complete rack-scale solution. This approach simplifies deployment and creates a consistent foundation for organizations scaling AI capabilities across cloud, enterprise, sovereign AI, and AI factory environments.

Designed for High-Density AI Deployment

To support the requirements of next-generation AI computing, the platform incorporates direct water cooling across compute and NVLink infrastructure. The integrated cooling architecture supports inlet temperatures of up to 45°C for improved performance per watt and enables the dense deployment of CPUs, GPUs, and networking technologies while supporting the power and thermal requirements of modern AI workloads.

Specifications

Form Factor	Fully integrated 48U NVIDIA MGX rack-scale AI platform
Compute Trays	18x compute trays
Processors	36x NVIDIA Vera CPUs
GPU	72x NVIDIA Rubin GPUs
GPU Interconnect	Single NVLink domain utilizing 9x NVLink switch trays and 36x NVIDIA NVLink 6 Switch chips
Memory	• Up to 1.5TB LPDDR5X memory and 1.15TB HBM4 memory per compute tray • Up to 27TB LPDDR5X memory and 20.7TB HBM4 memory per rack
Networking	NVIDIA ConnectX®-9 networking and NVIDIA BlueField®-4 DPU technology
Storage	4x E1.S Gen6 NVMe drive bays and 1x E1.S Gen6 NVMe boot drive bay per compute tray
Rack Management Network	2x SN2201 Top-of-Rack Management Switches
Power	4x 3U 110kW with dual 100amp feeds per shelf
Cooling	• Hybrid cooling system (liquid + air) • 100% liquid cooling for compute, switch and power bus bar
Architecture	NVIDIA Vera Rubin NVL72

About Lenovo

Lenovo is a US$83 billion revenue global technology powerhouse, ranked #153 in the Fortune Global 500, and serving millions of customers every day in 180 markets. Guided by its **vision** of "Smarter Technology for All", Lenovo is executing a **Hybrid AI strategy** that spans Personal AI – one personal AI, multiple devices; and Enterprise AI – helping customers turn data into insights and value. This strategy is delivered through the Group's commitment to **world-class innovation** and a full-stack AI portfolio, including devices, infrastructure solutions, software, and services. Lenovo is widely recognized for its **operational excellence**, with a global footprint spanning more than 20 R&D locations and a supply chain that includes more than 30 manufacturing sites across 10 markets.

For More Information

To learn more about the Lenovo NVIDIA Vera Rubin NVL72, contact your Lenovo representative or Business Partner or visit www.lenovo.com/thinksystem. For detailed specifications, consult the Lenovo NVIDIA Vera Rubin NVL72 Product guide.

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