Vertiv™ Open Rack MGX

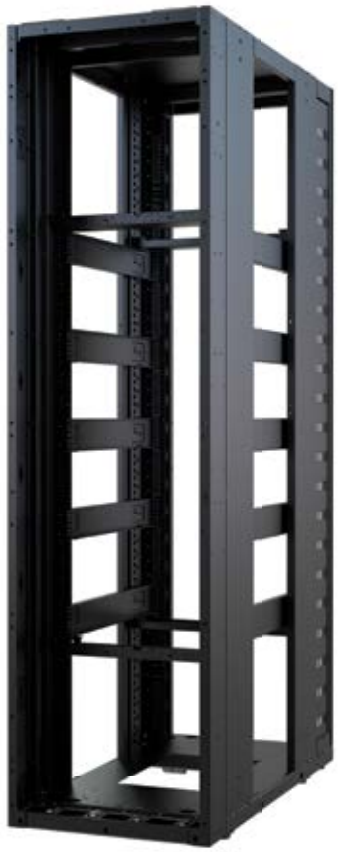
Powering AI: High Density IT Infrastructures

Highlights

Purposely built for NVIDIA GB200 and GB300 NVL72 SuperPods, Vertiv™ Open Rack MGX accelerate the deployment of AI factories and high-performance computing (HPC) workloads.

Benefits

- NVIDIA-approved design: Enables compatibility, standardization, and future-ready integration with NVIDIA AI deployments.
- High-density power support: Can incorporate scalable and efficient 19" DC Power Shelves to reliably deliver power for GPU-intensive clusters.
- Mid-density power support: Can incorporate vertical or horizontal rPDUs to deliver power for storage or networking assets.
- Standards-aware engineering: Designed for standard rack unit (44.45 mm) unit height, to enable seamless integration within 19" native AI servers and network devices such as the NVIDIA Quantum InfiniBand.
- Advanced thermal management: Supports cutting-edge cooling methods including in-rack manifolds to efficiently manage GPU heat loads.
- Scalability and reliability: Provides a strong infrastructure foundation that enables enterprises to scale AI deployments with confidence.



Vertiv™ Open Rack MGX

Flexible configuration:

DC Power Shelves mounted to optimize space usage while maintaining balance and structural integrity.

AI-optimized design:

Purposedly built to handle the extreme power density of modern AI and machine learning workloads.

Product description

Vertiv™ Open Rack MGX is designed to meet the unprecedented demands of modern artificial intelligence by delivering a comprehensive solution purpose-built for high-performance GPU clusters and large-scale AI deployments.

Engineered to support the extreme power densities required by AI and machine learning platforms, Vertiv™ Open Rack MGX can incorporate a 1400A DC power busbar, up to eight (4+4) scalable, highly efficient DC Power Shelves. Vertiv Open Racks MGX are also available as prebuilt racks, suitable for different applications such as computing and supporting racks for NVIDIA SuperPods. This enables seamless integration while maintaining structural integrity and maximizing usable space.

As power density per rack rises, Vertiv Open Rack MGX can also feature advanced thermal management technologies including direct-to-chip liquid cooling with Vertiv™ CoolChip Fluid Network manifolds with blind-mate quick disconnect, to dissipate the significand heat generated by GPUs.

Vertiv Open Rack MGX is also available as Vertiv™ SmartIT Solutions, a configurable, high-capacity rack system developed to simplify integration for system builders and support a variety of server and equipment types, ready to be further integrated with IT components.

Specifications

Product Description	
OCP Specs	MGX v1.1
Compliance Level	OCP-Inspired
Description	Open Rack V3 NVIDIA Vertiv Open Rack MGX v1.1 for GB200 NVL72

Mechanical Specifications	
Height (mm), on castors	2286 mm
Height (mm), without castors	2236 mm
Width (mm)	600 mm
Depth (mm)	1068 mm
IT Gear Width	19” (482 mm)
OCP Rack Units (OU)	44OU / 48RU
Net Weight (kg)	180 kg (397 lbs.)
Transport Weight (kg)	200 kg (440 lbs.)
Static Load Rating (kg/lbs.)	1,600 kg (3,527 lbs.)
Dynamic Load Rating (kg/lbs.)	1,400 kg (3,086 lbs.)
Frame Material	Steel
Finish	Powder Coat
Color	Black (RAL9005)
Castors & levelling feet	Included

Applications for Vertiv™ Open Rack MGX

- AI Factories: Modular setup for training LLMs and Generative AI at scale.
- HPC & Research: Running complex scientific simulations and data analytics.
- Digital Twins: Real-time industrial modeling using NVIDIA Omniverse.
- Edge & Telco: Deploying 5G/6G networks and AI inference in edge data centers.

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