Supermicro NVIDIA MGX™/OCP/EIA Rack Series

Purpose-Built Racks Engineered for High-Density Compute and Advanced Liquid Cooling

Designed for Mission-Critical AI Data Center Deployments

- **High-Capacity Sizing:** Maximizes compute power per rack for optimal performance and efficiency
- **GPU Density Optimized:** Supports power delivery infrastructure for GPU-intensive workloads
- **Liquid-Cooling Ready Design:** Facilitates easy integration of advanced liquid cooling solutions
- **Optimized, Ultra-Stable Structure:** Ensures fast, seamless installation and maximum reliability under heavy loads
- **Shortened Lead Time:** Pre-assembled, modular design to speed up AI data center deployment

Engineered by Supermicro for Extreme AI Density

Designed and developed entirely in-house, Supermicro's racks are purpose-built to accelerate high-density AI data center deployments. Featuring a reinforced chassis with a certified static load capacity of up to 2,500 kg, our design significantly exceeds industry standards to ensure uncompromising structural integrity. This robust architecture is specifically engineered to support the extreme weight of fully-populated GPU accelerators, power delivery systems, and liquid-cooling manifolds.

Liquid-Cooling Optimized Architecture

Designed specifically for advanced liquid cooling, these architectures support effortless integration with in-rack and in-row CDUs, sidecars, rear-door heat exchangers (RDHx), and liquid cooling manifolds. Dedicated, clearly separated pathways for coolant supply and return lines ensure tidy routing and complete isolation from power and network cabling. The result is a streamlined, low-risk deployment process and a highly scalable foundation built to power the next generation of liquid-cooled AI clusters.

Manufactured for Quality & Reliability

Supermicro's racks are engineered using premium-grade materials and high-precision manufacturing processes to deliver exceptional structural durability and longevity. Our rigorous quality assurance protocol includes Seismic and Vibration Qualification, headlined by GR-63-CORE Zone 4 testing, ensuring the chassis remains stable under the most intense operational stresses. By embedding stringent validation at every production stage, we satisfy the demanding requirements of modern data centers, providing unwavering reliability for mission-critical AI environments.

Shortened Lead Time & Rapid Deployment

Built on a standardized, fully modular architecture, our streamlined production achieves remarkably short lead times. By leveraging Supermicro's one-stop-shop model — integrating servers, liquid cooling, and racks — we optimize logistics and eliminate complex integration bottlenecks. With factory pre-assembly and highly efficient logistics, customers benefit from accelerated delivery and rapid on-site deployment. The vertical integration provided by Supermicro ensures that your high-density AI infrastructure is delivered with better service and speed, providing you a stable foundation for even the most intensive AI workloads.

NVIDIA GB300 Platform: MGX 1.1 Rack Series

52U MGX 1.1 Rack	SRK-52MGSM-7612114-B1 (Black) SRK-52MGSM-7612114-W1 (White)
Height	52U
Dimensions	30.0 (W) x 48.0 (D) x 96.5 (H) inch 762 (W) x 1,219 (D) x 2,450 (H) mm
Weight	860 lb (390 kg)
Static Load Capacity	5,512 lb (2,500 kg)
IP Grade	IP 20
Power Shelf Locations	Per suggested NVIDIA configuration
Busbars	Included

48U MGX 1.1 Rack	SRK-48MGSM-7612114-B1 (Black) SRK-48MGSM-7612114-W1 (White)
Height	48U
Dimensions	30.0 (W) x 48.0 (D) x 90.2 (H) inch 762 (W) x 1,219 (D) x 2,290 (H) mm
Weight	816 lb (370 kg)
Static Load Capacity	5,512 lb (2,500 kg)
IP Grade	IP 20
Power Shelf Locations	Per suggested NVIDIA configuration
Busbars	Included

OCP ORv3 Platform: 21" Rack Series

OCP 21" 48-OU Rack	SRK-480ESM-7512014-B1 (Black) SRK-480ESM-7512014-W1 (White)
Height	48-OU
Dimensions	29.5 (W) x 47.2 (D) x 95.7 (H) inch 750 (W) x 1,200 (D) x 2,431 (H) mm
Weight	642 lb (291 kg)
Static Load Capacity	5,000 lb (2,268 kg)
IP Grade	IP 20
Busbars	Included

OCP 21" 44-OU Rack	SRK-440ESM-7512014-B1 (Black) SRK-440ESM-7512014-W1 (White)
Height	44-OU
Dimensions	29.5 (W) x 47.2 (D) x 88.2 (H) inch 750 (W) x 1,200 (D) x 2,239 (H) mm
Weight	536 lb (243 kg)
Static Load Capacity	5,000 lb (2,268 kg)
IP Grade	IP 20
Busbars	Included

NVIDIA Vera Rubin Platform: MGX 1.2 Rack Series

52U MGX 1.2 Rack	SRK-52MGSM-7512050-B1 (Black) SRK-52MGSM-7512050-W1 (White)
Height	52U
Dimensions	29.5 (W) x 47.2 (D) x 96.5 (H) inch 750 (W) x 1,200 (D) x 2,450 (H) mm
Weight	877 lb (398 kg)
Static Load Capacity	5,512 lb (2,500 kg)
IP Grade	IP 20
Power Shelf Locations	Per suggested NVIDIA configuration
Busbars	Included

48U MGX 1.2 Rack	SRK-48MGSM-7512050-B1 (Black) SRK-48MGSM-7512050-W1 (White)
Height	48U
Dimensions	29.5 (W) x 47.2 (D) x 90.0 (H) inch 750 (W) x 1,200 (D) x 2,288 (H) mm
Weight	772 lb (350 kg)
Static Load Capacity	5,512 lb (2,500 kg)
IP Grade	IP 20
Power Shelf Locations	Per suggested NVIDIA configuration
Busbars	Included

EIA Standard Platform: 19" Rack Series

EIA 52U Rack Series	SRK-52SESM-75120-B1 (Black) SRK-52SESM-75120-W1 (White)
Height	52U
Dimensions	29.5 (W) x 47.2 (D) x 96.4 (H) inch 750 (W) x 1,200 (D) x 2,450 (H) mm
Weight	728 lb (330 kg)
Static Load Capacity	5,000 lb (2,268 kg)
IP Grade	IP 20

EIA 48U Rack Series	SRK-48SESM-75120-B1 (Black) SRK-48SESM-75120-W1 (White)
Height	48U
Dimensions	29.5 (W) x 47.2 (D) x 89.6 (H) inch 750 (W) x 1,200 (D) x 2,275 (H) mm
Weight	661 lb (300 kg)
Static Load Capacity	5,000 lb (2,268 kg)
IP Grade	IP 20