

# Supermicro 48U/52U NVIDIA MGX™ Rack Series

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



## Designed for Mission-Critical AI Data Center Deployments

- **High-Capacity 48U & 52U 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 NVIDIA MGX™ racks are purpose-built to accelerate high-density AI data center deployments, featuring a robust, reinforced chassis and intelligently optimized load distribution for uncompromising structural strength — even when fully populated with heavy GPU accelerators, power delivery systems, and advanced liquid-cooling infrastructure. This design ensures exceptional long-term stability, class-leading vibration resistance, and unwavering reliability under the relentless 24/7 stresses of intensive data center operations.

## Manufactured for Quality & Reliability

Supermicro's MGX racks are engineered with premium-grade materials and state-of-the-art precision manufacturing processes, delivering exceptional consistency, durability, and long-term reliability. Rigorous quality assurance and validation processes are embedded at every stage of production to satisfy the stringent demands of modern data centers. This unwavering commitment to excellence ensures stable, dependable performance and extended service life — even in the most mission-critical AI environments.

## Liquid-Cooling Optimized Architecture

Designed specifically for direct 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.

## Shortened Lead Time & Rapid Deployment

Built on a standardized, fully modular architecture, streamlined production achieves remarkably short lead times. With factory pre-assembly and highly efficient logistics, customers benefit from accelerated delivery and rapid on-site deployment — bringing powerful AI infrastructure online faster than ever before. This unmatched speed keeps mission-critical project timelines on track and supports the agile, large-scale expansion of next-generation data centers.

**52U MGX Rack Series**

**SRK-52MGSM-7612114-B1 (Black)**  
**SRK-52MGSM-7612114-W1 (White)**

Height	52U
Dimensions	762 (W) x 1,219 (D) x 2,450 (H) mm 30.0 (W) x 48.0 (D) x 96.5 (H) inch
Weight (kg)	390 kg
Static Load Capacity (kg)	2,500 kg
IP Grade	IP 20
Power Shelf Locations	Per suggested NVIDIA configuration
Busbars	Included



**48U MGX Rack Series**

**SRK-48MGSM-7612114-B1 (Black)**  
**SRK-48MGSM-7612114-W1 (White)**

Height	48U
Dimensions	762 (W) x 1,219 (D) x 2,290 (H) mm 30.0 (W) x 48.0 (D) x 90.2 (H) inch
Weight (kg)	370 kg
Static Load Capacity (kg)	2,500 kg
IP Grade	IP 20
Power Shelf Locations	Per suggested NVIDIA configuration
Busbars	Included