RACK SCALE SOLUTIONS

ACCELERATED TIME-TO-DELIVERY OF PLUG AND PLAY RACKS WITH PROVEN QUALITY AND RELIABILITY
WORLD-CLASS RACK MANUFACTURING FACILITY

Based in Silicon Valley complementing Supermicro’s unwavering commitment to quality, sustainability and maximizing turnaround time.

11MW Mass Production Center
High efficiency, reduced greenhouse gas emissions, minimized air pollutants and reduced water use.

4,000 /mo. Rack Capacity
Production, testing and shipping for integrated full-scale rack solutions.

Up to 800Gb/s Network Speed
Testing Environment
Complete testing environment from a wide range of network requirements.

4-Star Efficiency
High Process Efficiency
Autonomous guided vehicles deployed to maximize manufacturing efficiency and safety.

Up to 480VAC Power at Scale
SUPERMICRO RACK INTEGRATION SERVICES: A TOTAL SOLUTION FOR YOUR DATA CENTER NEEDS

1. Complete Service from Design to Deployment
   Leverage Supermicro team experts and resources to work with you to completely design and build turn-key solutions for your data center or COLO deployment.

2. Expert Technicians
   Supermicro’s expert team of product, firmware, BIOS and rack technicians will handle all phases of the rack integration and installation process.

3. Plug and Play (PnP)
   No matter whether its one server, one rack, one cluster, or one superpod, Supermicro can deliver complete solutions ready to go from day one, including procurement, testing, sBurn, rBurn and logistics.

4. Time-to-Market
   Supermicro is a complete design, manufacturing, integration and solution provider with thousands of engineering specialists and a global manufacturing footprint, enabling us to deliver full rack solutions within weeks, not months.

5. One Teamwork Approach
   Leverage our extended team of experts to help you address challenges in real-time.

6. Single Point of Contact
   Upon the start of your rack scale project, a dedicated Supermicro engineer will be your team’s single point of contact.

7. Cost Optimization
   Supermicro rack solutions can be flexibly constructed to meet customer schedules, quality requirements and budgets.
Building Complete Rack Solutions

HPC AI-Driven Data Center Solution

Supermicro’s L11 rack scale integration process not only includes the design, assembly, configuration and testing of each server at the node and rack level, but also involves simultaneous testing of all nodes to ensure that they have the exact same configuration and are communicating with one another as they were designed to.

Zero Failure Goal
Failures are costly, impacting revenue and reputation. Having a rack-scale solution validated and proven before shipping to the customer reduces the likelihood of issues post-deployment.

Rack Optimization
Adopting a standardized design and modular approach, optimized for power and cooling efficiency.

Cable Management
Power, networking and liquid cooling cabling is organized and managed to reduce clutter, improve airflow and make system troubleshooting and maintenance easier.

Burn-In Testing
Best-in-class quality assurance for R-Burn and S-Burn, with automated L11 cluster testing to validate integration quality and hardware reliability.

Delivery
Racks are professionally packed in shock-resistant and reusable crates for rapid shipping worldwide; cabled, labeled, fully tested and ready for operation upon arrival at your data center.

Full Plug and Play
Supermicro’s L12 solutions are ready to deploy on day one; simply connect power and networking to start running your applications right away.

Knowledge Transfer
Best practice documentation is key for long-term success and collaboration across multiple teams from design to delivery of your L12 Solution.
Superior Effectiveness of Liquid Cooling with Proven Deployments at Scale

Supermicro delivers fully validated Direct to Chip (D2C) and Rear Door Heat Exchanger (RDHx) liquid cooled rack scale solutions at rack (L11) and cluster (L12) levels, with accelerated data center deployment lead time delivering complete solutions within weeks. Supermicro’s liquid cooled rack solutions can deliver superior performance utilizing W45 (up to 45°C) and unmatched efficiency for large scale AI and cloud-scale compute infrastructure, reducing data center TCO and TCE.

Liquid Cooling Advantages

- Up to 89% reduction in electricity costs of cooling infrastructure in server
- Up to 40% reduction in electricity costs for entire data center
- Up to 55% reduction in datacenter server noise
7 STAGES OF RACK INTEGRATION PROCESS

1. Rack Design
   - Project Inception
   - Application Analysis
   - Power Budget
   - BOM Creation
   - Rack Layout

2. Quoting & Confirmation
   - BOM Acceptance
   - Project Initiation

3. Rack Prototyping
   - Initial Build
   - Proof of Concept

4. Assembly
   - Node Assembly
   - Rack & Stack
   - Networking & Power
   - Cabling & Labeling

5. Burn-In & Testing
   - Multi-Vendor Interoperability
   - Full Rack Burn-In
   - Full Rack Test Report
   - Performance Report

6. Delivery & On-Site Deployment
   - Asset Labeling & Documentation
   - Crating
   - Air-Ride Trucking
   - White Glove Service

7. Signature Support
   - Service Level Agreement
   - On-Call Support

Complete Rack Integration Delivered

Reliable
The integration process should produce consistent and predictable results. The reliability of rack integration ensures that the system functions as expected and operates with minimum downtime.

Repeatable
The process should be able to be executed multiple times with the same results. This is important for scaling the integration process and replicating it across different systems, ensuring that each system is integrated correctly.

Reproduceable
With documentation, your project can be reproduced by multiple teams or individuals with the same results and shared with others to improve collaboration and reduce errors.
ON-SITE RACK DEPLOYMENT

Supermicro's on-site rack deployment helps enterprises build data center from the ground up, including the planning, design, power-up, validation, testing, installation and configuration of racks, servers, switches and other networking equipment to meet the organization's specific needs.

On-site Rack Deployment

All equipment is carefully shipped to the deployment location, then unpacked, connected and tested by expert personnel.

On-site Integration

Complete integration ensures that the equipment is installed and connected correctly to ensure reliable operation and reduce the risk of downtime and associated costs.

On-site Software Installation

Custom installation of OS, middleware and software applications with configurations and settings.

On-site Benchmark Test

Benchmarking to ensure that the deployed solution performs as designed and meets the requirements of the organization.
Better
Better Performance
Per Watt and Per Dollar

Faster
First-to-Market Innovation with the
Highest Performance Server Designs

Greener
Reduced Environmental Impact and Lower TCO

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