RACK INTEGRATION AND DEPLOYMENT SERVICES
RACK SCALE SOLUTIONS
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.

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

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

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

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 it’s one server, one rack, one cluster, or one superpod, Supermicro can deliver complete solutions ready to go from day one, including procurement, testing, S-Burn, R-burn 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.
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

<table>
<thead>
<tr>
<th>Reduction</th>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>Electricity Costs of Cooling Infrastructure in Server</td>
<td>92%</td>
<td>Up to 92% reduction</td>
</tr>
<tr>
<td>Electricity Costs for Entire Data Center</td>
<td>51%</td>
<td>Up to 51% reduction</td>
</tr>
<tr>
<td>Datacenter Server Noise</td>
<td>55%</td>
<td>Up to 55% reduction</td>
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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.

Reproducible
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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