

Supermicro Data Center Building Block Solutions®



The latest advancements in AI come with new infrastructure challenges, such as increased power requirements and thermal management. Supermicro's Data Center Building Block Solutions (DCBBS) delivers everything required to rapidly outfit liquid cooled AI data centers.



First-to-Market
Rapid Deployment



One-Stop-Shop
with Onsite Services



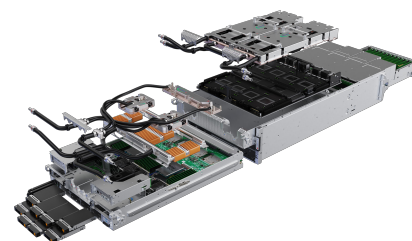
Customizable
Building Block DNA



Validated
Through L10 and L11

System-Level Building Blocks

DCBBS starts at the system level. A modular approach enables Supermicro to offer the industry's widest portfolio of application-optimized servers. Supermicro offers an unbeatable level of customization, with the freedom to choose individual sub-components for superior fine-tuning of data center computing resources..



Rack-Level Building Blocks

Once systems are defined, they're integrated into rack-level building blocks, designed and deployed into racks with optimized thermals, power, and cabling. Networking is fully handled, including for the GPU compute fabric, in-band, and out-of-band networks. Scalable Units of validated rack clusters enable seamless scaling to 256-nodes and beyond.



Supermicro DLC-2

Supermicro's DCBBS starts at the system-level, allowing customers to fine-tune the balance of data center resources with customization down to the CPUs, GPUs, DIMMs, drives, NICs, and more with various chassis form factors.

Power Savings	Water Savings
up to 40%	up to 40%
Heat Capture	Low Noise
up to 98%	up to 50dB

DCBBS AI Factory Data Center-Level Scalable Unit



Supermicro's ready-to-deploy DCBBS packages, include a 256-Node AI Factory Data Center-Level Scalable Unit based on proven deployments from the world's largest AI clusters. It is fully tested, scalable, and configurable to an application, power budget, or target GPU count.



x256
Compute Nodes



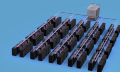
x32
Racks



x4
Scalable Units



HPS
Storage Fabric



DLC-2
Total Solution

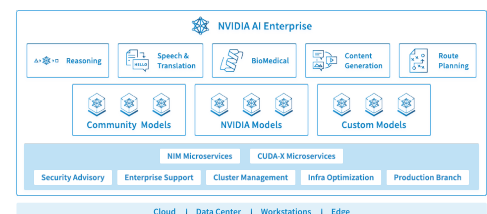
Global Services and Support

Supermicro offers a full portfolio of service-level building blocks such as datacenter design, solution validation, and professional onsite deployment. It includes continued on-site support to ensure long-term success, along with a 4-hour Onsite Response time option for mission-critical uptime.



Software

DCBBS provides the option to handle software integration for all types of AI applications, including AI training, AI inferencing, and more. Supermicro conducts software provisioning and validation based on the customer's software stack. DCBBS system building blocks for AI Infrastructure are NVIDIA Certified, taking advantage of NVIDIA AI Enterprise software.



SuperCloud Composer

Manage your entire infrastructure, including 3rd party devices, at a glance with state-of-the-art dashboards with SuperCloud Composer. Respond and adapt quickly to dynamic business needs with storage, compute, and networking flexibility that accommodates ever-changing workload requirements.

