



THE SMARTEST PATH TO SCALABLE AI

Neoclouds Move AI Builders Faster –
From Inspiration to Empire



TABLE OF CONTENTS

Acceleration is the destination – but how are you getting there?	3
For everybody building a bigger future, there's a path forward	4
A new kind of cloud (and a whole lot more)	5
A partnership in powering the future.....	6
Build smarter with Supermicro Data Center Building Block Solutions [®]	7
Building for tomorrow since the start	8
Build big, move fast, unlock real value.....	9



ACCELERATION IS THE DESTINATION – BUT HOW ARE YOU GETTING THERE?

The race for AI and accelerated compute is on. Deep discovery, infinite personalization, rapid creative iteration, complex conversational design: the benefits of AI feel limitless.

But getting from idea to implementation is very much constrained, and AI projects get stalled in discovery mode, unable to move forward with confidence.

- **GPU capacity** isn't always easy to find or affordable.
- Beyond compute, teams are building across **fragile and fractured environments**.
- **Regulatory compliance** (privacy, security, data sovereignty, etc.) is harder than ever.
- And just when you master deployment, everybody wants a **plan to scale**.

The old choices for infrastructure can't always keep up, and teams are asking for more and more. Luckily, a new class of technology providers are stepping in. Neocloud providers are bigger than **yet another deployment path** – it's a path forward to **unlocking AI value**.

Read on to learn more.



FOR EVERYBODY BUILDING A BIGGER FUTURE, THERE'S A PATH FORWARD

When it's time to move from inspiration to implementation, the dev team has plenty to do. Whether it's a breakthrough life sciences discovery or a brand-new agentic workflow platform, everybody wants the same thing: speed, certainty, and safety. But wanting it – and getting it – are two different things.

Beyond the basics (reliability, security, observability), designing the path from dev to production is critical, no matter what you're building.

BUILDING AI	SCALING HPC	GETTING THE CLOUD RIGHT
<p>Moving from inspiration to production requires managing too many moving parts.</p> <ul style="list-style-type: none">• Choosing and tuning LLM• Optimizing AI data pipelines and databases• Building RAG and inference workflows• Designing the interface• Agentification	<p>Turning large-scale experiments into insight pushes systems, data, and teams to their limits.</p> <ul style="list-style-type: none">• Sizing infrastructure• Solving data movement/storage• Orchestrating workflows• Configuring environment and access• Automating operations and monitoring	<p>Legacy cloud providers can't always meet future-ready technical, business, and compliance constraints.</p> <ul style="list-style-type: none">• Finding capacity• Guaranteeing on-demand availability• Solving density and cooling challenges• Answering data sovereignty concerns

All this complexity means deployment and scaling are rarely a straight line from Point A to Point B. It can all quickly become a technical (and emotional) roller coaster.

Neocloud providers bring the fix, turning complication into confidence and getting everybody to value faster. (To see how neoclouds are helping build AI Factories, [watch here](#).)

A NEXT GEN (AND A WHOLE LOT MORE)

The vision of neocloud platforms lives right in the name: a new kind of cloud. Where legacy cloud providers have driven digital transformation until now, building the future requires a different kind of infrastructure.

Neocloud platforms bring traditional cloud benefits (elasticity, on-demand access, metered pricing) to the ultra-dense, ultra-dynamic needs of today's GPU-centric workflows. The results are exactly as game-changing as you'd expect. ([Read our infographic to see it in action.](#))

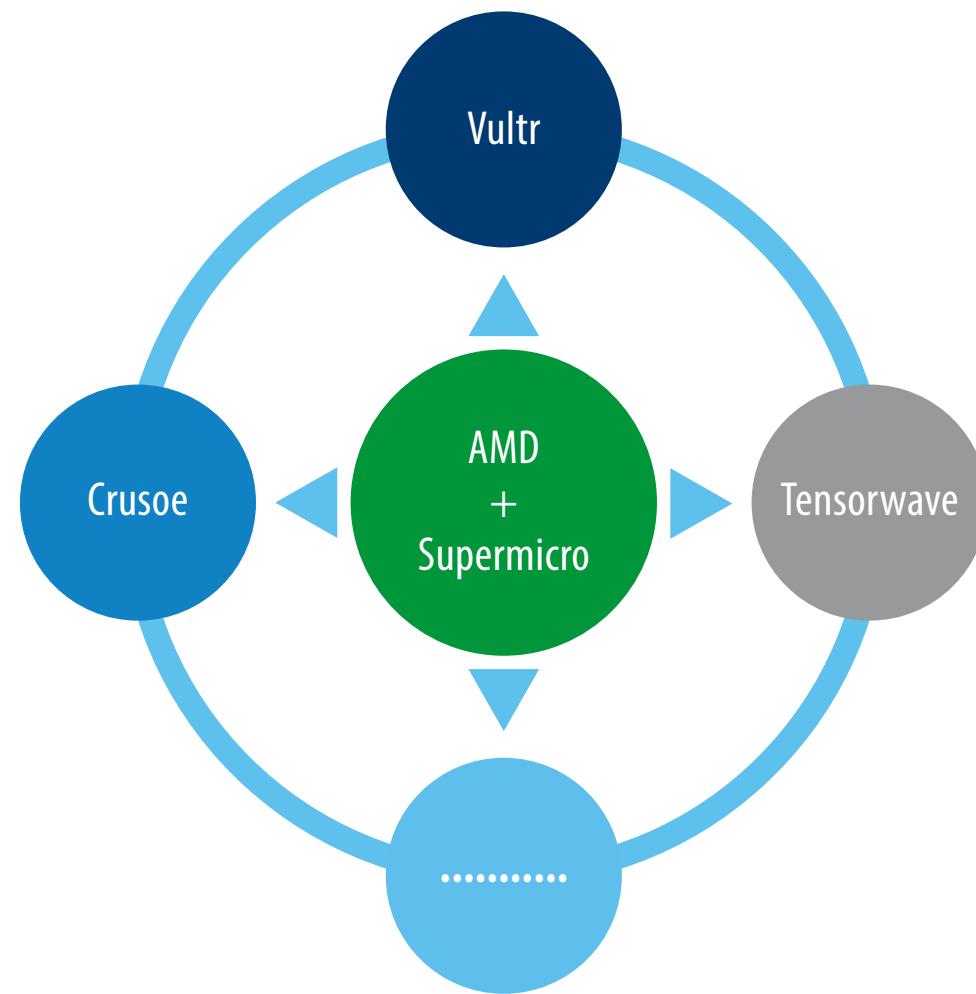
- **Frictionless dev-to-prod motion**, with one-command access to optimized hardware and preconfigured environments. Builders spend less time in administration and more time where it matters: production.
- **Day 0 readiness** across the whole HW/SW/services stack, enabling large models and agents to instantly run efficiently, without months of custom development integration.
- **Faster access to next-gen silicon**, where and when you need it, so you'll never worry about building on an outdated infrastructure.
- **Specialized microservices** to enable faster AI build/run

The organization, no matter what they're building, wins big too. They get lower capex, stronger governance and compliance, and instant global reach.

Encloud providers can't do this on their own. They rely on next-gen performance and reliability from Supermicro + AMD to turn vision into velocity, for both your dev team and the business.

A PARTNERSHIP IN POWERING THE FUTURE

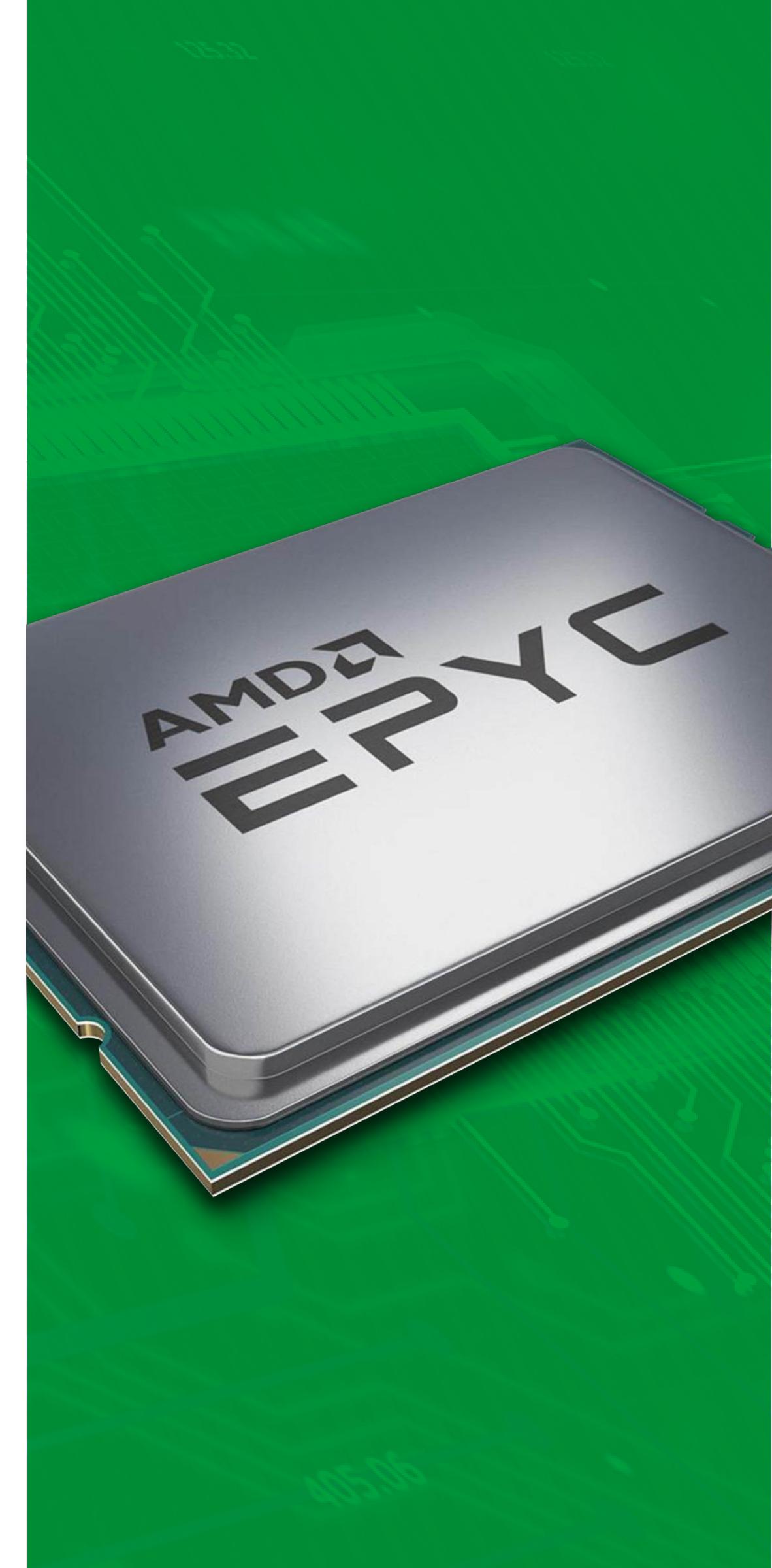
Neocloud providers give AI builders faster, more flexible paths from first rev to Day 1 readiness around the world.



Not just the cutting edge in CPU/GPU performance, but all the technology fundamentals required to build with maximum choice and confidence.

- Performance leadership
- Nonstop reliability
- Instant resilience
- Simple scalability
- Embedded security
- Expert support

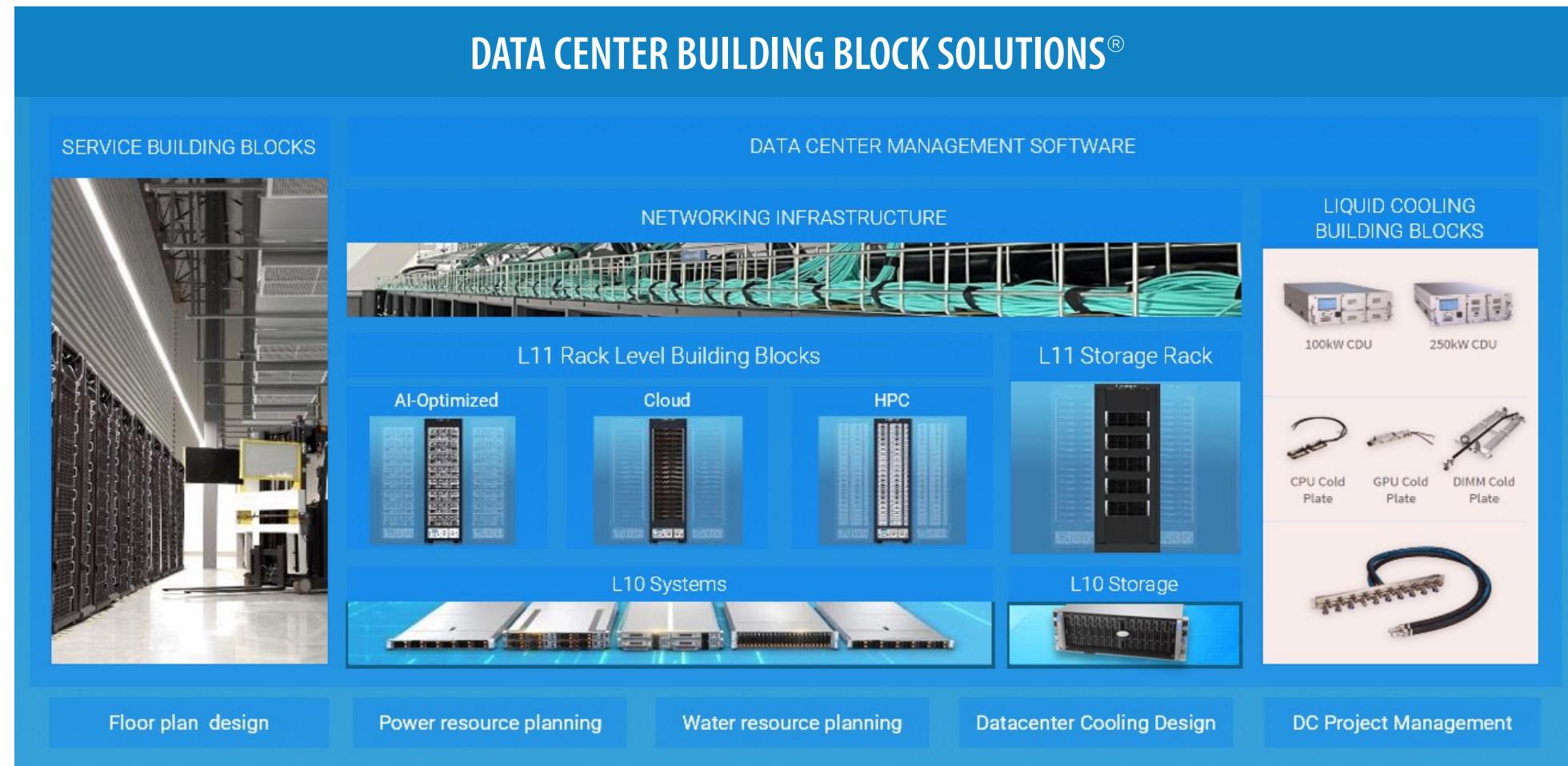
See how neocloud is making the difference for today's AI builders. [Click here.](#)



BUILD SMARTER WITH SUPERMICRO DATA CENTER BUILDING BLOCK SOLUTIONS®

Neoclouds can deploy and scale faster because they're building smarter, with Supermicro DCBBS® Solutions at the foundation. This is how innovation scales with continuous confidence. [Click here.](#)

DATA CENTER BUILDING BLOCK SOLUTIONS®



The diagram illustrates the Supermicro Data Center Building Block Solutions (DCBBS) architecture. It is organized into three main horizontal sections: SERVICE BUILDING BLOCKS, DATA CENTER MANAGEMENT SOFTWARE, and LIQUID COOLING BUILDING BLOCKS.

- SERVICE BUILDING BLOCKS:** Shows a server room with a forklift moving a rack.
- DATA CENTER MANAGEMENT SOFTWARE:** Shows a network of racks with green cables. It includes sections for:
 - NETWORKING INFRASTRUCTURE:** L11 Rack Level Building Blocks (AI-Optimized, Cloud, HPC), L10 Systems, and L10 Storage.
 - DC Project Management:** Tools for Floor plan design, Power resource planning, Water resource planning, Datacenter Cooling Design, and DC Project Management.
- LIQUID COOLING BUILDING BLOCKS:** Shows 100kW CDU and 250kW CDU units, along with CPU Cold Plate, GPU Cold Plate, and DIMM Cold Plate components.



BUILDING FOR TOMORROW SINCE THE START

Neocloud providers are enabling AI builders to move to what's next faster with continuous confidence. That's the same vision Supermicro and AMD have pursued together for the last 30 years, collaborating for constant innovation – **now at data center scale**.

Expert collaboration on complete data center and edge solutions, from traditional x86 to complete CPU/GPU + storage + network solutions (HW + SW + services + security)

Supermicro has been first-to-market with the latest and greatest AMD EPYC™ CPUs and Instinct GPUs and accelerators

Exclusive technology breakthroughs including new A+A+A Supermicro servers and Supermicro liquid-cooled 4U/2U AMD GPU systems.

World records that empower global business leaders to move their industries and the world forward, across nearly every industry and region



BUILD BIG, MOVE FAST, UNLOCK REAL VALUE



When you're building something important, speed becomes a much bigger issue than the performance from a single processor, server, or even an entire data center. It can't be just the technology that accelerates – innovation should see the organization move faster, too.

Neoclouds make it happen – delivering the power of Supermicro + AMD at scale, on demand.

Test drive the future, remotely. Jumpstart gives you immediate access to next gen neocloud compute and flexibility. [Try it now.](#)



Supermicro (NASDAQ: SMCI) is a global leader in Application-Optimized Total IT Solutions. Founded and operating in San Jose, California, Supermicro is committed to delivering first-to-market innovation for Enterprise, Cloud, AI, and 5G Telco/Edge IT Infrastructure. We are a Total IT Solutions manufacturer with server, AI, storage, IoT, switch systems, software, and support services. Supermicro's motherboard, power, and chassis design expertise further enables our development and production, enabling next generation innovation from cloud to edge for our global customers. Our products are designed and manufactured in-house (in the US, Taiwan, and the Netherlands), leveraging global operations for scale and efficiency and optimized to improve TCO and reduce environmental impact (Green Computing). The award-winning portfolio of Server Building Block Solutions® allows customers to optimize for their exact workload and application by selecting from a broad family of systems built from our flexible and reusable building blocks that support a comprehensive set of form factors, processors, memory, GPUs, storage, networking, power, and cooling solutions (air-conditioned, free air cooling or liquid cooling).

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