Reimagine datacenter space and power for the AI era

Lenovo | AMD

More power, please

AI is driving ever-increasing demand for data capacity.

According to McKinsey, global demand for datacenter capacity could rise at an annual rate of between 19 and 22 percent from 2023 to 2030 to reach an annual demand of 171 to 219 gigawatts (GW).[1]

72%
AI adoption in 2024.[2]

up to **22%**
datacenter growth per year

However, many organizations are yet to make full use of their existing datacenter footprint...

Space is too precious to waste

100,000 sq ft
average datacenter size worldwide

Are you struggling with these datacenter challenges?

- Outdated
- Out of warranty
- Inefficient
- Hard-to-manage

Want to make the most from your existing datacenter footprint?

- Remove out-of-warranty servers
- Switch to high-density compute
- Unleash AI
- Optimize power and efficiency

Consolidate with higher density compute to free up the space, energy and resources for AI with Lenovo and AMD

Modernization is more than refresh cycles and replacing old servers. It's about choosing power, flexibility, and energy efficiency – with components that deliver high performance in a smaller footprint to unlock maximum rack space, capacity and value.

Maximize rack space
with high core count AMD EPYC™ CPUs

Up to 3:1
server consolidation vs. older servers with Lenovo V3 servers running on AMD EPYC processors.[3]

Free up power and space
for next-gen AI with AMD Instinct™ accelerators

Less space, more power

Enjoy leadership performance per watt...

- Lenovo servers, powered by AMD EPYC processors, are among the world's most energy-efficient servers.
- Lenovo V3 servers with AMD processors offer 80PLUS Platinum or Titanium certified power supplies – up to 94% efficient.[4]

Double your speeds...

Up to 123% increased performance improvement vs. previous generation with Lenovo V3 servers with AMD processors.[5]

Transform your datacenter with Lenovo and AMD solutions designed to optimize space, reduce power demands, and prepare for AI.

Learn More

Lenovo | AMD

[1] https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/ai-power-expanding-data-center-capacity-to-meet-growing-demand
[2] https://www.mckinsey.com/capabilities/quantumblack/our-insights/the-state-of-ai
[3] Claim: "Lenovo V3 servers with 4th generation AMD EPYC™ processors offer up to 3:1 server consolidation over older servers."...or "Achieve 3:1 server consolidation" .or "ThinkSystem V3 servers with 4th generation AMD EPYC processors make 3:1 server consolidation possible for virtualized workloads when compared with second-generation AMD EPYC processors." Footnote: VMmark 3.1.x results, as of 10/20/23. Two Lenovo ThinkSystem SR665 V3 servers, each with two AMD EPYC 9654 processors, scored 40.66 @ 42 tiles. See https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2024-06-13-Lenovo-ThinkSystem-SR665V3.pdf for further details. Two HPE servers, each with two AMD EPYC 7702 processors, scored 12.78 @ 14 tiles. See https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2019-08-07-HPE-ProLiant-DL385Gen10.pdf for further details. To find out more about VMmark, visit https://www.vmware.com/products/vmmark.html. VMware® and VMmark® are trademarks or registered trademarks of VMware, Inc. VMware VMmark is a product of VMware, Inc. Actual consolidation results will vary based on many factors.
[4] CLEAResult, "What does Bronze, Silver, Gold, Platinum, and Titanium PSU (power supply units) rating mean?" 2024
[5] Claim: "Lenovo V3 servers with AMD processors offer up to 123% performance improvement over the previous generation" Footnote: Lenovo SR675 V3 with two 2.55 GHz AMD EPYC 9684X processors achieved a SPECrate®2017_fp_base score of 1570 compared to 702 for the Lenovo ThinkSystem SR665 with two 2.20 GHz AMD EPYC 7773X processors. See https://www.spec.org/cpu2017/results/res2024q3/cpu2017-20240828-38895.html and https://www.spec.org/cpu2017/results/res2022q3/cpu2017-20220704-32171.html for complete details. Results are current as of Oct 18, 2024. See http://www.spec.org for additional information. SPEC®, SPEC ACCEL®, SPEC CPU®, SPEC MPI®, SPEC OMP®, SPEC VIRT_SC®, SPEC VIRT®, SPEChpc™, SPECjbb®, and SPECpower_ssj® are trademarks of the Standard Performance Evaluation Corporation (SPEC).