AMPERE.

A NEW ERA IN AI COMPUTE EFFICIENCY

ROADMAP TO RESULTS

Advancing tomorrow's data center

Data centers must evolve dramatically, driven by sharply intensifying volume cloud compute and the proliferation of traditional AI workloads and models. In addition, they must prioritize sustainability and efficiency in order to handle growing demands in the future.

Ampere is not just anticipating these changes but actively adapting today to shape the data center of tomorrow. Embrace the transformation and set your organization on the path to a more efficient and high-performance data center future.

Navigating the terrain

AI =

$1T	Generative AI poised to **exceed $1 trillion** by 2032[1]
30%	Small and midsize business adoption lags behind large enterprises **(30% vs. 60%)**[2]
2x	Data center power consumption **may double** from 2022 to 2026[3]
80%	of operators are **power-constrained**[4]
65%	Average server refresh cycle exceeds five years, **up 65%** since 2015, leaving hardware unprepared for growth[5]

Practical pathways to upgrades

Upgrading servers:

- ✔ Phased approach. Increase performance with minimal disruption
- ✔ Focus on efficiency. Leverage existing power and space footprint

Upgrading:

- ✘ Significant capital outlay for hardware and infrastructure
- ✘ Potential downtime and logistical challenges

Increase performance per rack

of key general purpose and
AI inference workloads

AmpereOne®

67% **more performance** per rack compared to AMD EPYC™ 9004 Series processors

Experience revolutionary space, power, and cost savings

AmpereOne®

UP TO 38%	UP TO 37%	UP TO 49%
less rack space	less power	less server acquisition costs

... all for the same performance levels

Built for AI workloads

AI

Typical GPUs excel in high-performance compute, training, and deep learning but are not optimized for most AI inference tasks.

AmpereOne®

Optimizes performance and efficiency for AI inference workloads, such as recommender engines, computer vision, language processing and others.

Transformative long-term results

AmpereOne®

TCO by **up to 41%** over three years

AMPERE.

Leading in performance, scalability, and power efficiency for AI-ready data centers

Discover how upgrading to AmpereOne® can transform your operations today.

Learn more

1. Bloomberg, "Generative AI to Become a $1.3 Trillion Market by 2032, Research Finds," June 2023.
2. Colorlabs, "AI Statistics for Small Business," September 2024 and Forbes, "SMBs Flourish Embracing AI for Efficiency and Engagement," June 2024.
3. International Energy Agency (IEA), "Electricity 2024 – Analysis and Forecast to 2026", Issues and Data Center Frontier, "IEA Study Sees AI, Cryptocurrency Doubling Data Center Energy Consumption by 2026," March 2024.
4. Uptime Institute, "Large data centers are mostly more efficient, analysis confirms," February 2024.
5. Uptime Institute, "Global Data Center Survey 2023," 2023, "Adopting a Technology Refresh Program from Dell Improves Operational and Cost Efficiencies for Servers," 2023, and Greenwich IT, "The Hidden Costs of Aging Technology Infrastructure," May 2024.

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