



FORGE YOUR FUTURE WITH RIGHT-SIZED SERVER SOLUTIONS

EXECUTIVE SUMMARY

Bolstered by a stabilizing economy, midsize businesses are poised to make the most of new opportunities for growth, but competition is evolving at lightning speed while masses of data, technical learning curves and budget pressures present potential business pitfalls. With AMD EPYC™ processor-based servers – on premises or at the edge – you can open the door to new innovation, impressive TCO and improved decision making.

EMERGING ECONOMIC STABILITY AND INTENSE COMPETITION ARE CREATING NEW OPPORTUNITIES FOR MIDSIZE BUSINESSES...

- 66% of companies plan to increase tech investments in 2024,¹ with overall IT spending increasing 6% over 2023.²
- 73% of companies expect their revenues to increase in 2024.¹
- 45% of businesses that modernized and adopted new technologies reported improved ROI for their IT investments.²

AMD EPYC™ PROCESSOR-BASED SERVERS: RIGHT- SIZED FOR NOW AND FOR WHAT'S NEXT

ACCELERATE PRODUCTIVITY, MAKE
MORE-INFORMED DECISIONS AND
GET TO MARKET FAST

MODERNIZE YOUR INFRASTRUCTURE
WITH INNOVATIVE DESIGN, SCALABILITY
AND ENERGY EFFICIENCY

CONFIDENTLY NAVIGATE TODAY'S
CYBER RISKS AND SUPPLIER CHALLENGES

...YET CHALLENGES FROM STAFFING AND SKILL SHORTAGES TO BUDGET PRESSURES AND CYBERTHREATS ARE POTENTIAL ROADBLOCKS

- There is intense market pressure on SMB and midsize executives to deliver tangible progress toward – and benefits from – application innovation and digital business. Generative AI (GenAI) offers significant potential to enhance their operations and drive innovation, improving efficiency, productivity and customer satisfaction.
- An IT labor shortage persists. Attracting tech workers is a priority, but 63% of senior tech leaders say it is difficult to fill the gaps.¹
- Ever-escalating cybersecurity threats necessitate robust protection and recovery measures. Implementing effective security solutions and preventing cyberattacks are top IT challenges for midsize companies.

WHAT IF YOU COULD GET MORE FROM YOUR IT INFRASTRUCTURE, TEAM AND BUDGET TO SUPPORT NEW BUSINESS OPPORTUNITIES? WHAT IF YOU COULD BETTER BALANCE YOUR PERFORMANCE, INNOVATION, SECURITY AND TCO NEEDS ACROSS YOUR DATA CENTERS AND EDGE DEPLOYMENTS?

FORGE YOUR FUTURE WITH AMD EPYC™ PROCESSOR-BASED SERVERS: RIGHT-SIZED FOR NOW AND FOR WHAT'S NEXT.

ACCELERATE PRODUCTIVITY, MAKE INFORMED DECISIONS AND GET TO MARKET FAST. AMD EPYC processor-based servers empower you to unlock the potential of data in new ways, identify opportunities and optimize operations to drive your business forward.

- For your most important workloads, AMD EPYC processors power both the highest-performing and most energy-efficient x86 servers, delivering world-record performance across major industry benchmarks,³ while helping reduce energy costs and meet corporate sustainability goals. [EPYC-028C](#)
- Across all your workloads, from the most basic to the most advanced, AMD EPYC processor-based servers are ideal for implementing transformation, automation and advanced solutions, such as AI. AMD provides technical best practices, toolsets and more – all of which can simplify processes, drive modernization efforts and reduce the burden on the IT staff.
- Choose from a wide array of CPU configurations to build the servers that best match your plans for performance, efficiency or low-cost operation in the data center and at the intelligent edge.

AMD EPYC™ PROCESSORS: EXCEPTIONAL PERFORMANCE, EFFICIENCY AND SECURITY FEATURES FOR THE WIDE ARRAY OF WORKLOADS YOUR BUSINESS COUNTS ON

AMD EPYC 7003 SERIES

Advance your data center with proven technology solutions delivering excellent performance, high-efficiency and great value for core workloads.

AMD EPYC 9004 SERIES

Supercharge your applications and accelerate your business results in the data center with leadership performance and energy-efficiency.

AMD EPYC 7003X AND 9004X SERIES WITH 3D V-CACHE™ TECHNOLOGY

Take advantage of leadership and achieve breakthrough performance for complex technical computing workloads like EDA, CFD, FEA and more, with a dramatic increase in L3 cache.

AMD EPYC 8004 SERIES

Purpose-built, energy-efficient CPUs for intelligent edge and Telco computing.

AMD EPYC 97X4 SERIES

Get the performance, density, energy efficiency and compatibility needed to provide no-compromise computing for on-premises environments.

MODERNIZE YOUR INFRASTRUCTURE WITH INNOVATIVE DESIGN, SCALABILITY AND ENERGY EFFICIENCY.

With AMD EPYC™ processor-based servers, right-sized for the needs of midsize businesses today and tomorrow, you can gain the robust computing infrastructure you need to stay nimble, high performing, cost-effective and competitive in a rapidly evolving landscape.

- 3rd and 4th Gen AMD EPYC processors deliver high performance and energy efficiency, enabling data center optimization with the possibility of deploying fewer servers to support the same number of workloads, users and jobs.
- Affordable AMD EPYC 7003 Series processors deliver performance and efficiency for mainstream data center servers. Featuring impressive performance and optimized single-socket design options, they maximize the value of your investments in a compatible and cost-effective manner.
- Servers built with energy-efficient AMD EPYC 8004 processors are purpose-built for edge computing. They enable high productivity, fast informed decisions and a rapidly responsive business by moving collection, compute and analytics closer to the data source, accelerating the impact of advanced technologies that use AI/ML, IoT and 5G.
- AMD EPYC 9004 series processors deliver optimized performance for your most scalable, critical and challenging workloads—with remarkable energy efficiency.
- AMD collaborates with a broad network of solution providers to help ensure applications run exceptionally well. With AMD EPYC processors, experience worry-free migration and seamless integration with existing x86 infrastructures. Explore the ecosystem at amd.com/en/where-to-buy/processors/epyc/ecosystem-partners.html.

CONFIDENTLY NAVIGATE TODAY'S CYBER RISKS AND SUPPLIER

CHALLENGES. With the advanced security features of AMD Infinity Guard and business targets set by AMD, you can focus on your core mission: driving innovation, growth and profitability. Built-in at the silicon level, AMD Infinity Guard offers the advanced capabilities required to help defend against internal and external threats and keep your data safe.⁴ AMD's proven history of delivering on its announced processor roadmaps as well as sustainability and corporate responsibility targets, you can be confident that your data center needs will be met.

- Building on the AMD Infinity Guard feature set, 4th Gen AMD EPYC processors add improved features such as 256b AES-XTS encryption to help make strong security features even stronger.
- AMD Infinity Guard offers the advanced capabilities required to help defend against internal and external threats and keep your data safe, all built in at the silicon level.⁴
- AMD's growing Confidential Computing ecosystem addresses the special security concerns around migrating sensitive applications and data to the cloud.
- AMD's partnerships with suppliers support supply chain resilience.⁵

AMD EPYC™ PROCESSORS POWER BOTH THE HIGHEST-PERFORMING AND THE MOST ENERGY-EFFICIENT X86 SERVERS³, [EPYC-028C](#)

GAIN A

14%

INTEGER PERFORMANCE/EST. SYSTEM PRICE ADVANTAGE

1P 16C AMD EPYC 7303P powered server vs. 1P 16C Intel® Xeon® 6426Y powered server. [MLN-207](#)

PROPEL COMMON AI/ML WORKLOADS AT THE EDGE

UP TO

160%

BETTER PERFORMANCE/ SYSTEM W/SYSTEM \$ ACROSS FIVE COMMON AI/ML WORKLOADS

1P servers using 64-core AMD EPYC 8534PN CPUs over 52-core Intel® Xeon® Platinum 8741N CPUs deliver up to 160% better performance/system w/system \$ (150% avg) running five common AI/ML workloads. [SP6-006](#)

ACHIEVE PEAK PERFORMANCE

19%

BETTER INTEGER PERFORMANCE AND 18% BETTER PERFORMANCE/ ESTIMATED SYSTEM W

2P 64C AMD EPYC 9554 powered server vs. 2P 64C Intel® Xeon® Platinum 8592+ powered server. [SP5-173A](#)

CREATE THE COMPUTING PLATFORM YOUR BUSINESS NEEDS TODAY – AND TOMORROW.

For midsize businesses striving to succeed, a strategic focus on modern, energy-efficient technology is crucial. AMD EPYC processors provide a path to growth, delivering exceptional data capacity while maintaining performance, optimizing power consumption and enhancing security. Harness the power of AMD EPYC processor-based servers to help supercharge performance and drive profitability for your business.

AMD
together we advance_



1 Spiceworks, "The 2024 State of IT," <https://www.spiceworks.com/research/state-of-it/>.

2 Spiceworks, "Defying Economics: IT Budgets Expected to Rise in 2024 Amid Recession Preparations," September 6, 2023, <https://www.spiceworks.com/tech/tech-general/articles/state-of-it-2024-report-it-spending/>.

3 For a complete set of world records the AMD EPYC family of processors has achieved as of 09/18/2023, see <https://www.amd.com/en/processors/epyc-world-records>.

4 AMD Infinity Guard features vary by EPYC processor generations and/or series. Infinity Guard security features must be enabled by server OEMs and/or cloud service providers to operate. Check with your OEM or provider to confirm support of these features. Learn more about Infinity Guard at [amd.com/en/technologies/infinity-guard](https://www.amd.com/en/technologies/infinity-guard). GD-183A.

5 See <https://www.amd.com/en/corporate/corporate-responsibility/supply-chain-responsibility.html>

For details on the claims used in this document, visit [amd.com/en/claims/epyc](https://www.amd.com/en/claims/epyc).