

GET PEAK PERFORMANCE FOR CLOUD, ENTERPRISE AND AI

WITH AMD EPYC™ 9005 SERIES PROCESSORS

Servers based on AMD EPYC 9005 Series processors offer **leadership performance, density and efficiency** to support today's most demanding data center initiatives.

EXPLOSIVE DATA CENTER GROWTH AHEAD

The global AI hardware market is expanding, with an annual **growth rate of 24.5%**, from \$53.71 billion in 2023 to a projected \$473.53 billion by 2033.¹ CPUs have a key role in AI processing in data centers.²

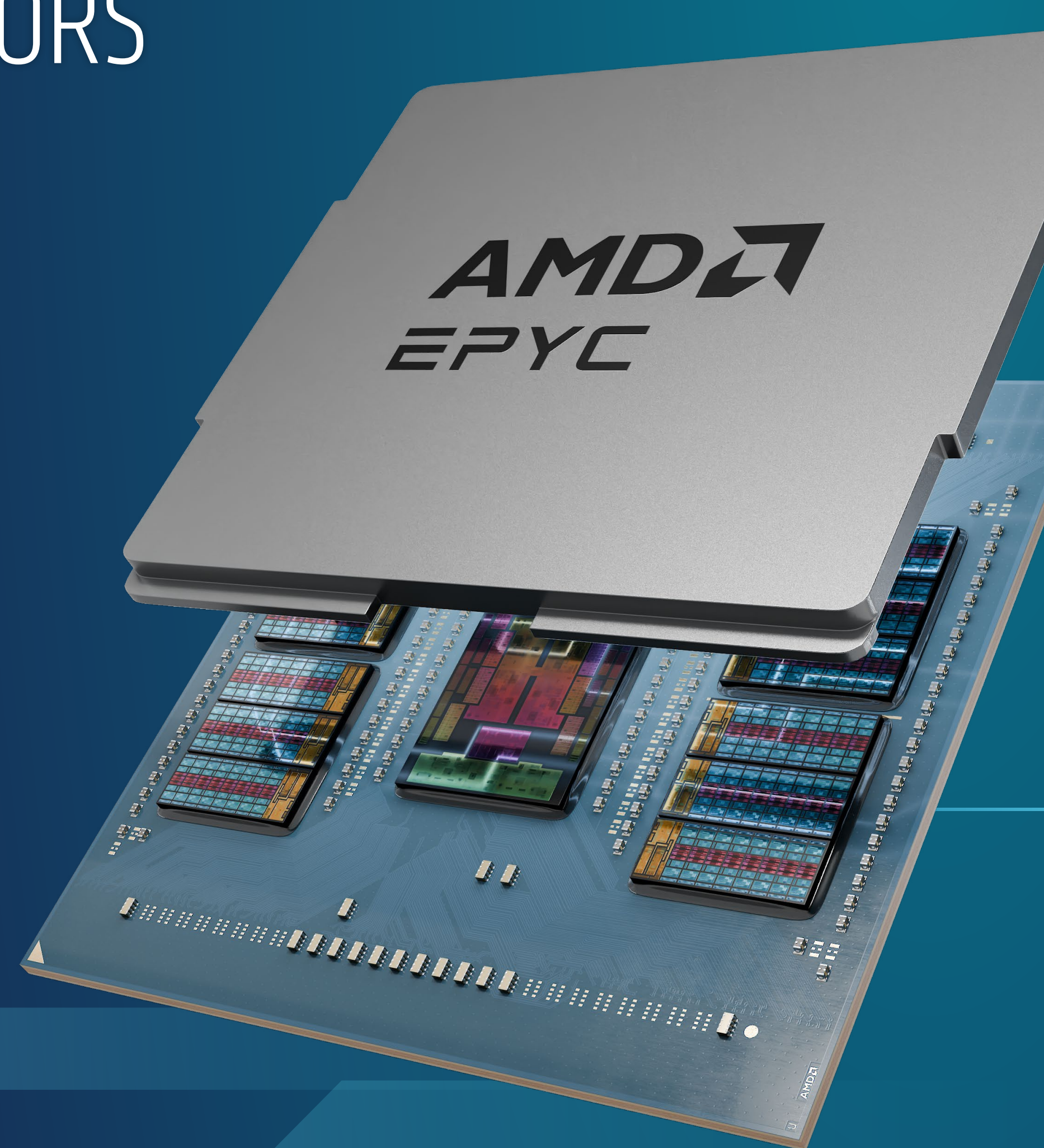
As the demand for more computing performance swiftly expands, data-center efficiency is critical. Electricity consumption from data centers, AI and the cryptocurrency sector could **double by 2026**.³

24.5% per year growth rate

2x electricity consumption by 2026

AMD EPYC™ 9005 SERIES PROCESSORS THE CHOICE FOR ADVANCING AI AND ENTERPRISE APPLICATIONS

Use AMD EPYC 9005 Series-powered servers to drive everything from corporate AI enablement and large-scale hybrid cloud buildouts to business-critical enterprise applications.



PROPEL YOUR AI

↑ Outstanding performance

Built for Optimal AI Performance

AMD EPYC 9005 Series processors are designed to deliver **outstanding performance** with their high-core count and support for high memory and I/O bandwidth. Also, high frequency models excel at optimizing CPU-accelerated system performance by efficiently managing data preparation and post-processing tasks.

~2.7x Inference throughput

Faster than the Competition in AI Inference

Achieve **~2.7x the inference throughput** when running extreme gradient boosting with the Higgs boson data set (XG Boost) on servers with two 192-core AMD EPYC 9965 processors compared to those with two 64-core Intel® Xeon® 8592+ CPUs. ^{9xx5-010}

~15% Faster training time

Optimize GPU System Performance as an AI Host Processor

Deliver **~15% faster training time** when hosting 8 GPU accelerators with two high frequency AMD EPYC 9575F CPUs compared to two Intel® Xeon® 8592+ CPUs running Llama 3.1-8B. ^{9xx5-015}

SPEED ENTERPRISE APPLICATIONS

2.68x Higher throughput

Leadership Integer Performance

Expect **2.68x higher throughput** when comparing two-socket servers using 192-core AMD EPYC 9965 CPUs to 64-core Intel® Xeon® 8592+ CPUs running SPECrate®2017_int_base. ^{9xx5-002B}

2.2x the Multi-JVM critical jOPs

Business Workload Supremacy

Get **2.2x the Multi-JVM critical jOPs** when using two-socket servers based on 192-core AMD EPYC 9965 CPUs vs. 64-core Intel® Xeon® 8592+ CPUs running SPECjbb®2015-MultiJVM Benchmark®. ^{9xx5-060}

BUILD MORE EFFICIENCY INTO YOUR COMPUTE

UP TO 86% Fewer servers

UP TO 69% Less power

Consolidation and Modernization

Replacing 100 old 2P Intel® Xeon® 8280 CPU-based servers with ~14 new AMD EPYC 9655 CPU-based servers can provide an estimated 39,100 units of integer performance while using **up to 86% fewer servers and 69% less power**. Achieving the same performance level would require 35 2P Intel® Xeon® 8592+ CPU-based servers. ^{9xx5-001B}

LEVERAGE A STRONG ECOSYSTEM

x86 Software compatibility

x86 Compatibility

AMD EPYC 9005 Series processors have **x86 software compatibility**, providing easy integration into your existing infrastructure.

↔ Broad applicability

Widespread Industry Adoption

Tailored for various environments including cloud, hyperscale, on-premises and SAAS, AMD EPYC 9005 Series processors enable **broad applicability** across industries.

AMD together we advance_data centers



Contact your Connection Account Team for more information.

Business Solutions 1.800.800.0014
Enterprise Solutions 1.800.369.1047
Public Sector Solutions 1.800.800.0019
www.connection.com/AMD

¹ GlobeNewswire, "Artificial Intelligence (AI) in Hardware Market Size to Reach USD 473.53 Bn By 2033", March 6, 2024, <https://www.globenewswire.com/news-release/2024/03/06/2841613/0/en/Artificial-Intelligence-AI-in-Hardware-Market-Size-to-Reach-USD-473-53-Bn-By-2033.html>
² The Futurum Group, "AI Chipset Market Share Analysis, 5-Year Forecast," August 19, 2024, <https://www.businesswire.com/news/home/20240819523529/en/Futurum-Intelligence-Releases-AI-Chipset-Market-Share-Analysis-5-Year-Forecast-Revealing-Vendor-Revenue-and-Growth>
³ International Energy Agency, "Electricity 2024, Analysis and Forecast to 2026," <https://iea.blob.core.windows.net/assets/6b2f6954-2017-408e-bf08-952fdd62118a/Electricity2024-Analysisandforecastto2026.pdf>, page 8.