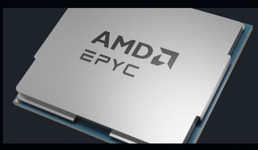
AMD EPYC™ 9005 PROCESSORS
ADVANCE ENTERPRISE AI INFERENCE

AMD LEADERSHIP ENTERPRISE AI PORTFOLIO HELPS CONSOLIDATE TRADITIONAL & AI WORKLOADS

Key features enable AMD EPYC to consolidate infrastructure, optimize costs, and adapt to evolving needs of both traditional and AI workloads.

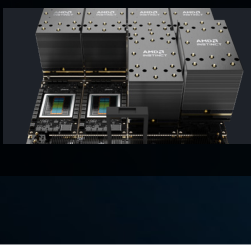
- **Advanced Memory Management**
- **Robust Software Ecosystem**
- **Hardware Acceleration**
- **High Core Count & Multithreading**
- **Large Cache Sizes**

AMD
Offers Leadership
Performance & Efficiency
for both CPUs & GPUs



AMD EPYC

- Mixed workload Inference
- Small to Medium Models
- Batch/Small Scale Inference



AMD INSTINCT

- AI Training & Dedicated Deployments
- Medium to Large Models
- Large-Scale Inference

LEADERSHIP ENTERPRISE AI CPU INFERENCE & ENERGY EFFICIENCY SOLUTIONS

AMD EPYC processors deliver incredible performance for AI inference

~39% Faster LLM Inference Throughput	**~86%** Faster Similarity Search	**~128%** Faster End-to-End AI
Llama 3.1-8B BF16 (tokens/sec) 9xx5-009	FAISS (Requests/Hour) (16 core instances at FP32) 9xx5-011	TCPxAI @ SF30 (AI use cases/min) 9xx5-012

Comparing 2P servers with 5th Gen 192-core AMD EPYC 9965 CPUs vs 4th Gen 96-core AMD EPYC 9654 CPUs

DEPLOY WITH THE CONFIDENCE OF ADVANCED SECURITY FEATURES & OPEN STANDARDS

Compute with confidence, knowing that your business is addressing today's security challenges with the advanced security features of AMD Infinity Guard.[1]

Plus, long and consistent AMD commitments to supporting open standards is critical to the development of a healthy and competitive computing ecosystem.

> **"We have found that AMD has the most powerful processor on the market and that helps us build systems that can increase the throughput for each server while reducing the hardware investment costs."**

Professor Minh Hoai Nguyen
Principal Research Scientist & Head of Smart Edge, VinAI

Case Study: https://www.amd.com/en/resources/case-studies/vin-ai.html

[1] 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 https://www.amd.com/en/technologies/infinity-guard. GD-183A

For details on the claims used in this document, visit amd.com/en/legal/claims/epyc.

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