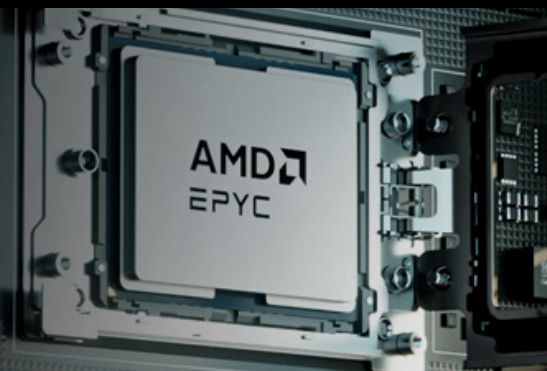


AMD EPYC™ 8005 SERVER CPUS

BIG PERFORMANCE. LOW POWER. SMALL FOOTPRINT



AT A GLANCE

Edge infrastructure faces mounting pressure to deliver greater performance and a wider range of workloads within tight power, space, and cost envelopes. Operators and enterprises need dense, efficient compute for mission-critical workloads in production, from vRAN and AI inference to real-time analytics and imaging diagnostics, without the complexity of specialized hardware or lock-in. AMD EPYC™ 8005 Server CPUs are purpose-built for the edge with up to 84 cores in a single socket, leadership performance per watt, designed for commercial-scale deployment.



PERFORMANCE PER WATT & DOLLAR ALL IN ONE SOCKET

Leadership Performance Per Watt Per Dollar

Leadership performance per watt per dollar vs. x86 alternatives in telco, networking, edge, and storage. Comparing single-socket servers built with the 84-core AMD EPYC 8635P CPU vs 72-core Intel Xeon 6776PB CPU yields ~48% better integer performance per CPU Watt per CPU dollar. [8xx5-004](#) Right-sized single-socket deployments with flexible 8-84 core options and optimized memory I/O enabling fewer servers, lower power, and lower cost. Helps OEMs deliver business value with cost-efficient servers, optimizing TCO with standards-based manageability and exceptional energy efficiency.



OPTIMIZE APPLICATION PERFORMANCE

Where Space and Power Are at a Premium

Engineered for wide thermal ranges with quiet, air-cooled operation, enabling dense single-socket systems where space and power are at a premium: Telco: Enables OEM certification of NEBS-compliant platforms. Cloud Storage: PCIe® Gen5 (up to 96 lanes) to support storage devices/solutions. Edge: high core count per socket for small form factor. AMD “Zen 5” cores deliver high performance at low power, with TDPs as low as 70W for power-constrained single-socket deployments. Delivers impressive performance per watt on demanding workloads including Java®, edge transcoding, IoT, & edge AI.



FAST, LOW RISK WITH X86 MODERNIZATION

Modernize x86 with Confidence. Lead with AMD

Modernize edge, telco, and cloud storage infrastructure on a familiar x86 stack, minimizing migration risk versus non-x86 alternatives. x86 compatibility and enterprise RAS enable fast deployment, easy qualification, and simplified support—without recompilation: Telco: vRAN applications run without recompilation or re-architecture. Cloud Storage: existing storage software qualifies quickly, simplifying management. Edge: existing edge stacks deploy rapidly, accelerating time-to-service.



TRUSTED BY INDUSTRY LEADERS

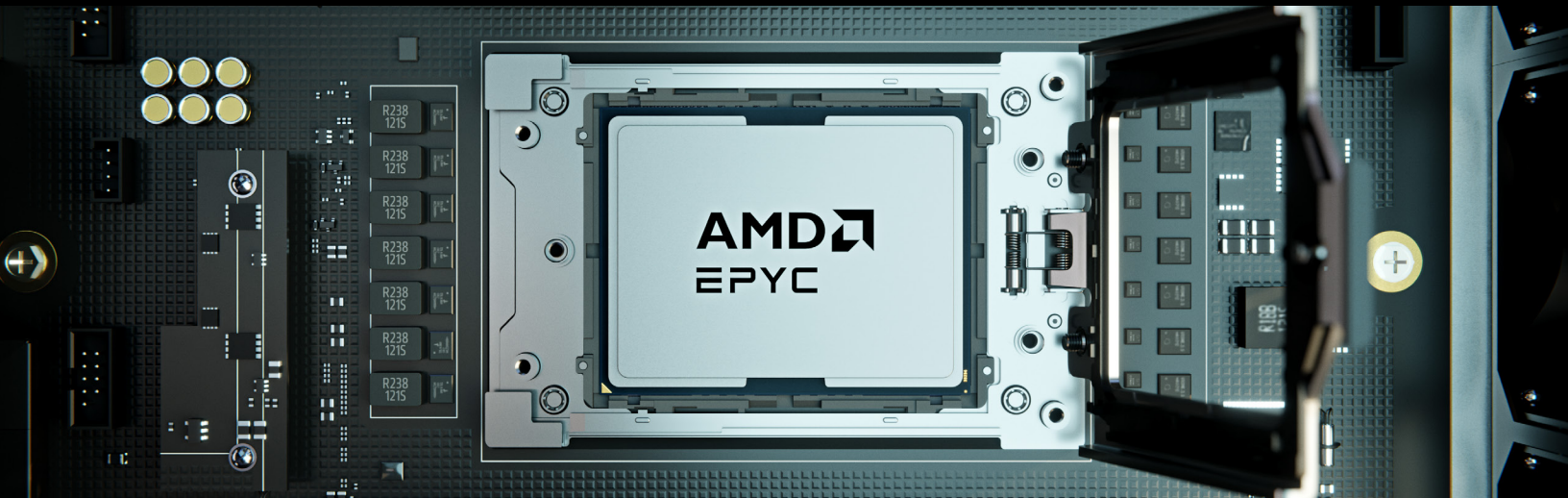
AMD is a trusted supplier for global computing installations today

The proven performance, efficiency, and easy x86-software compatibility of AMD EPYC Server CPUs have prompted companies, governments, and organizations around the globe to make the switch to AMD EPYC CPU-based servers for the most demanding computing tasks. With the leadership AMD EPYC server CPU portfolio available from leading systems vendors, and qualified with leading applications and AI frameworks, models, and tools, servers with AMD EPYC server CPUs can enhance computing and AI-powered business solutions, providing a seamless path towards excellence.

AMD EPYC™ 8005 SERVER CPU

MODEL	CORES	THREADS	DEFAULT TDP (W)	cTDP	L3 CACHE (MB)	BASE FREQUENCY (GHz)	MAX FREQUENCY* UP TO (GHz)	DDR5 CHANNELS / MAX MEMORY (2DPC)	MAX DDR5 MT/S UP TO (1DPC)	PCIe® GEN 5 LANES
8635P	84	168	225	155-225	384	1.6	4.5	6/3TB	6400	96
8535P	64	128	210	155-225	256	2.0	4.5	6/3TB	6400	96
8435P	48	96	200	155-225	256	2.45	4.5	6/3TB	6400	96
8325P	32	64	175	155-225	256	2.7	4.5	6/3TB	6400	96
8225P	24	48	160	155-225	128	2.95	4.5	6/3TB	6400	96
8125P	16	32	125	120-150	128	2.65	4.5	6/3TB	6400	96
8025P	8	16	95	70-100	64	2.9	4.5	6/3TB	6400	96

* EPYC-018: Max boost for AMD EPYC™ processors is the maximum frequency achievable by any single core on the processor under normal operating conditions for server systems.



FOOTNOTES

For details on the footnotes used in this document, click on the links or visit amd.com/en/legal/claims/epyc.html

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