

5 WAYS AMD EPYC™ 8005 SERVER CPUs REDEFINE EDGE COMPUTING

Unlock the power of AMD across edge, telco, and cloud storage with AMD EPYC™ 8005 Server CPUs. Optimized for power- and space-constrained environments, these CPUs deliver enterprise-class reliability, availability, and service (RAS) with highly efficient performance for edge applications.

1

SINGLE SOCKET. TRIPLE THREAT.

Compact, single-socket AMD EPYC 8005 Server CPUs deliver big performance, low power, and a small footprint.

**DEPLOY 8 TO 84
AMD “ZEN 5” CORES
IN A 70 TO 225 WATT
POWER ENVELOPE.**

2

LEADERSHIP PERFORMANCE EFFICIENCY – BUILT FOR THE EDGE

AMD EPYC 8005 Server CPUs deliver high core densities, 6-channel DDR5-6400 memory, and 96 lanes of PCIe® Gen 5, so you can do more with fewer servers, less power, and lower costs compared to competing CPUs.

**SEE 48% HIGHER
PERFORMANCE PER CPU
WATT, PER CPU DOLLAR THAN
COMPETING x86 CPUs.**^{8xx5-004}

Results compare single-socket servers with 84-core AMD EPYC™ 8635P Server CPUs versus 72-core Intel® Xeon® 6 6776P-B CPUs.

3

DATA-CENTER-CLASS PERFORMANCE, OPTIMIZED FOR CONSTRAINED ENVIRONMENTS

Deploy data-center-class computing in single-socket systems for power- and space-constrained applications. AMD EPYC 8005 Server CPUs function well in air-cooled devices and rack servers and enable OEM certification of Network Equipment-Building System (NEBS)-compliant devices.

**SEE 40% HIGHER
TOP-OF-STACK INTEGER
PERFORMANCE**^{8xx5-012} **AND**
**30% HIGHER PER-CORE
PERFORMANCE PER WATT.**^{8xx5-016}

Results compare 84-core AMD EPYC 8635P and 64-core AMD EPYC™ 8535P with 64-core AMD EPYC™ 8534P.

4

CONFIDENTIAL COMPUTING WITH NO CODE CHANGES

AMD Infinity Guard^{GD-183A} with AMD Secure Encrypted Virtualization (SEV 4.0) provides hardware-based security features and a mature foundation. No redesigning or development required – just spin up a confidential virtual machine (VM) or container on a supported platform.

HELP PROTECT DATA IN USE FROM HYPERVISORS, HOST SYSTEMS, AND MALICIOUS ACTORS.

5

GET STARTED WITH LEADING OEMs AND ISVs

Hardware and software products for telco, private 5G, retail AI, intelligent edge, and cloud storage are ready for deployment.

PROVIDERS LIKE HPE, SAMSUNG, SUPERMICRO, WIND RIVER, AND WOBOTAI HAVE QUALIFIED EDGE SOLUTIONS FEATURING AMD EPYC™ 8004 AND 8005 SERVER CPUs.

REDEFINE WHAT'S POSSIBLE AT THE EDGE

Get big performance with low-power, small-footprint AMD EPYC Server CPUs designed specifically for the power, space, and thermal demands of edge computing.

[Learn more](#)



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

GD-183A: 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/products/processors/server/epyc/infinity-guard.html>.

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