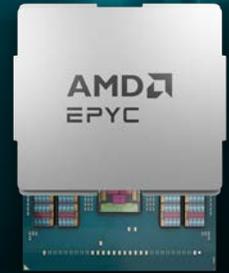**AMD**
EPYC

5 REASONS *AMD EPYC™ 4005 SERIES PROCESSORS* ARE YOUR TRUSTED CHOICE FOR SMB AND HOSTING

AT A GLANCE

AMD EPYC™ 4005 Series processors power easy-to-use, low-cost servers designed for small businesses and dedicated hosting providers looking for advanced technology in energy-efficient, affordable systems to help them grow their businesses and leverage the AI era.

1 PRODUCTIVE

Get a compelling balance of efficiency, dependability and scalability in an easy-to-manage package that addresses growing compute needs. Based on the latest "Zen 5" processor microarchitecture, the AMD EPYC 4005 Series includes core counts ranging from 6 to 16 and memory options to suit growing business needs.

2 AFFORDABLE

Servers powered by AMD EPYC 4005 processors enable compelling entry-level system configurations at the highly competitive price points that small businesses and IT hosting providers need to succeed.

3 EASY TO USE

AMD EPYC 4005 Series processors power turnkey, highly accessible, x86-compatible and manageable server solutions from top system vendors. They are validated on key server operating systems, making them simple to deploy for cost-conscious organizations that require predictable lifecycle planning.

4 EFFICIENT

The outstanding performance per dollar and per watt of AMD EPYC 4005 Series processors helps you get the most from your IT investments.

5 DEFEND YOUR DATA

Gain peace of mind with AMD Infinity Guard to help protect your data against potential security attacks.[1] AMD EPYC 4005 Series processors offer innovative hardware-based security features like memory encryption and Secure Boot.

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TECHNICAL DEEP DIVE

#1 PRODUCTIVE

- AMD EPYC 4005 Series processors feature up to 16 high-performance "Zen 5" cores, L3 cache from 32 to 128 MB and a TDP from 65 to 170 watts.
- Streamlined memory (up to 16% faster than the competition) and I/O features are designed to deliver compelling system cost and performance on key workloads.[E4K-030]
- Get two channels of fast DDR5 memory (up to 192GB capacity) and ample PCIe® 5 lanes for I/O expandability.
- Achieve ~1.95x the throughput than Intel® Xeon® 6369P CPU running SPECrate®2017_int_base. [E4K-028]

#2 AFFORDABLE

- Competitively priced options and impressive performance per CPU enable low-cost systems for growing businesses.
- Single socket 16-core AMD EPYC processor based servers enable you to fully utilize your 16-core-based Microsoft Windows Server license.
- A 1P (16-core) AMD EPYC 4565P powered server outperforms a 1P (8-core) Intel® Xeon® 6369P powered server by 95% running SPECrate®2017_int_base - for double the cores at a lower processor cost - facilitates 98% higher performance per estimated system dollar. [E4K-028]

#3 EASY TO USE

- Run your business software or hosting service quickly and reliably on a performant enterprise-class server that is easy to deploy out of the box in flexible form factors to suit a variety of needs.
- Replace your "PCs used as servers," or aging, inefficient low-core-count servers, with new infrastructure featuring capacity, scalability and efficiency for the modern, AI-enriched business environment.
- AMD EPYC 4005 Series powered servers can be installed as office-based racks or as standalone infrastructure to support general-purpose business processing workloads and the integration of AI enhancements.
- Use advanced, server-validated solutions from trusted systems and service providers to meet your IT needs.

#4 EFFICIENT

- Full x86 compatibility helps lower barriers to modernization and makes replacing servers easy.
- Help reduce your power consumption with CPU energy usage as low as 65W.
- Comparing 1P servers, a 16-core AMD EPYC 4565P processor offers 42% better integer performance per estimated system watt than an 8-core Intel® Xeon® 6369P CPU.[E4K-028]

#5 DEFEND YOUR DATA

- Deploy confidently with server-grade features like error correction code (ECC) memory and software RAID support.
- Help protect sensitive data from sophisticated attacks and avoid downtime with the multilayered, hardware-based approach to security on AMD EPYC processors.[1]
- Provide strong data-protection capabilities with TPM 2.0, Crypton Acceleration and secure AES-128-bit memory encryption.

AMD EPYC™ 4005 SERIES PROCESSORS

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

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