AMD RYZEN™ 7000 SERIES PROCESSORS

AMD RYZEN PROCESSOR PERFORMANCE FOR SMALL BUSINESSES AND DEDICATED HOSTING

AT A GLANCE

Your small and medium-sized business (SMB) customers need a simple solution: fast, entry-level servers that are easy to deploy. AMD Ryzen™ 7000 Series processor–based servers are a perfect fit. They have an attractive price point and run business software on enterprise-class platforms. With AMD Ryzen 7000 Series processor–based servers, your customers can accelerate workloads—from accounting and productivity apps to customer relationship management (CRM) and file server software—to boost business productivity. They can also benefit from built-in server security features that help keep their data safe from threats.

LOW INFRASTRUCTURE COSTS

Get the job done at an economical price. AMD Ryzen processors enable low-cost infrastructure for outstanding performance per dollar. An innovative processor design helps improve efficiency, which can subsequently result in lower operating expenses (OpEx) and greater business productivity.

LEADERSHIP PERFORMANCE

Outstanding performance. Comparing one-processor (1P) servers, a 16-core AMD Ryzen 9 7950X processor delivers 129% more integer performance than an 8-core Intel® Xeon® E-2388G processor.[1]

POWER-EFFICIENT SERVERS

Achieve high performance per dollar with low power consumption. Energy-efficient processors help reduce server power usage, support sustainability efforts, and help optimize rack utilization.

BUILT-IN SECURITY FEATURES

The last thing you need is a data breach. Through a modern, embedded, multi-layered approach to security, AMD Ryzen 7000 Series processors help businesses protect data, avoid downtime, and reduce resource drain.

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PROCESSOR MODEL	PROCESSOR PART NUMBER (OPN)	CORES/THREADS	BASE FREQUENCY (GHZ)	UP TO MAXIMUM BOOST FREQUENCY (GHZ)[2]	THERMAL DESIGN POWER (TDP) IN WATTS	PCIE® SUPPORT	L2/L3 CACHE (MB)
AMD Ryzen 9 7950X	100-000000514A	16/32	4.5	5.7	170	Gen 5	16/64
AMD Ryzen 7 7700X	100-000000591A	8/16	4.5	5.4	105	Gen 5	8/32
AMD Ryzen 9 7900	100-000000590A	12/24	3.7	5.4	65	Gen 5	12/64
AMD Ryzen 7 7700	100-000000592A	8/16	3.8	5.3	65	Gen 5	8/32
AMD Ryzen 5 7600	100-000001015A	6/12	3.8	5.1	65	Gen 5	6/32
AMD Ryzen 9 7950X3D	100-000000908A	16/32	4.2	5.7	120	Gen 5	16/128
AMD Ryzen 9 7900X3D	100-000000909A	12/24	4.4	5.6	120	Gen 5	12/128
AMD Ryzen 7 7800X3D	100-000000910A	8/16	4.2	5.0	120	Gen 5	8/96

LEARN MORE:

AMD Ryzen for server solutions

FOOTNOTES

1. **R4S-007:** SPECrate®2017_int_base comparison based on published scores from www.spec.org as of 08/15/2023. Comparison of published 1P AMD Ryzen 9 7950X (177 SPECrate®2017_int_base, 170 total TDP W, 16 total cores, $699 total CPU $, 1.041 perf/W, http://spec.org/cpu2017/results/res2023q3/cpu2017-20230726-38019.html) is 2.29x the performance of published 1P Intel Xeon E-2388G (77.3 SPECrate®2017_int_base, 95 total TDP W, 8 total cores, $578 total CPU $, 0.814 perf/W, http://spec.org/cpu2017/results/res2022q4/cpu2017-20221010-32540.html) [at 1.28x the performance/W] [at 1.89x the performance/CPU$]. AMD 1Ku pricing and Intel ARK.intel.com specifications and pricing as of 08/15/2023.
2. **GD-150:** Max boost for AMD processors is the maximum frequency achievable by a single core on the processor running a bursty single-threaded workload. Max boost will vary based on several factors, including, but not limited to: thermal paste, system cooling, motherboard design and BIOS, the latest AMD chipset driver, and the latest OS updates.

AMD