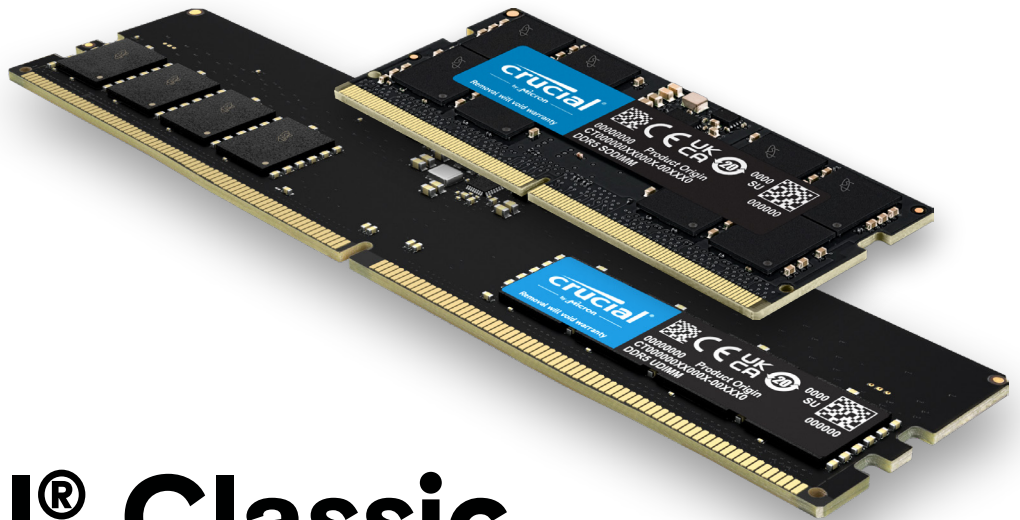




Crucial® Classic DDR5 Memory

Not just faster. Better.

Harness second-gen DDR5 performance right

Crucial® DDR5 Memory has the blazing speed and massive bandwidth needed for the next generation of multi-core CPUs¹. This innovative technology empowers your system to multitask better, load, analyze, edit, and render faster, game with higher frame rates, uncover data insights faster, enhance productivity to save time and money, significantly reduce lag for heavy workloads and optimize power efficiency over the previous generation². Available in speeds up to 5,600MT/s and densities up to 64GB⁴, Crucial DDR5 Memory can enable your computer¹ to harness performance that was once only possible with extreme performance memory³.

Best for

Next-generation
computing platforms

Key features

- Speed: 4,800MT/s, 5,600MT/s
- Extended timings:
4,800: 40-39-39
5,600: 46-45-45
- Densities: 8GB, 12GB, 16GB, 24GB, 32GB, 48GB, 64GB^{4,8}
- Performance: Intel® XMP 3.0 and AMD EXPO™ support¹
- Compatibility: Intel® Core 12th Gen and above, and AMD Ryzen™ 6000 series and higher desktop CPUs³
- Warranty: Limited lifetime⁶

Boost workforce productivity, save time and money

Crucial DDR5 Memory can transfer data up to 1.75x faster and deliver up to 2x more bandwidth than DDR4, helping workplace users uncover data insights faster and boost productivity. DDR5 performance is enhanced not just during testing, but in real-world conditions².

Best value with support for both Intel® XMP 3.0 and AMD EXPO™

Even with CPUs that suppress memory speed, Crucial DDR5 desktop memory can reach its rated speeds with Intel® XMP 3.0 or AMD EXPO™ turned on in the UEFI/BIOS settings¹⁴. Get the full value of your investment without overpaying for performance and enjoy the flexibility of using your Crucial DDR5 Desktop Memory in either an Intel or AMD build⁶.

No latency downsides with DDR5

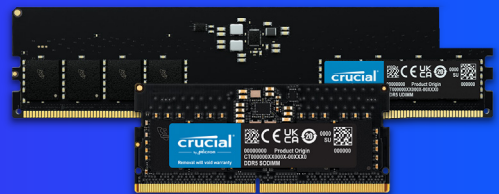
Crucial DDR5's system latency, measured in nanoseconds, is only up to 3% longer than DDR4 during testing¹⁵, meaning real-world latency performances are virtually the same. With Crucial DDR5 delivering up to 2x more bandwidth, DDR4 is still outperformed.

Extreme performance right out-of-the-box

Crucial DDR5 Memory can transfer data up to 1.75x faster and deliver up to 2x more bandwidth than DDR4, resulting in shorter load times, file transfers, downloads, lag time and improved refresh rates. Performance is enhanced not just during testing, but in real-world conditions².

Crucial® DDR5 Memory

Density	8GB, 12GB, 16GB, 24GB, 32GB, 48GB, 64GB ^{4,8}
Speed	4,800MT/s, 5,600MT/s
Voltage	1.1V
Pin count	288-pin (UDIMM); 262-pin (SODIMM)



DDR5 memory is not compatible with DDR4 systems. Higher speed memory can downclock when system specifications only support lower speed grades.

1. Only with a DDR5-enabled CPU and motherboard. DDR5 desktop memory is not compatible with DDR4 motherboards.
2. Under memory-intensive workloads, DDR5 can deliver up to 2x the bandwidth, per an internal simulation of dual ranked x8 modules in client platforms.
3. DDR5 4,800MT/s speeds are comparable to extreme-performance DDR4 memory speeds and 1.5x faster than maximum standard DDR4 speeds of 3200MT/s.
4. 12GB, 24GB and 48GB densities are only available in SODIMM form factors.
5. Since 12th Gen Intel® Core™ processors are compatible with either DDR4 or DDR5 memory, adopting DDR5 will yield superior system performance.
6. Crucial DDR5 desktop memory modules (UDIMM) can reach rated speeds with Intel XMP 3.0 or AMD EXPO™ turned on in the UEFI/BIOS settings. Applicable for all Crucial DDR5 desktop memory (UDIMM) modules except Crucial DDR5-4800 desktop memory, which supports only Intel® XMP 3.0. Based on published competitor specs for DDR5 memory as of October 2022. Altering clock frequency or voltage beyond JEDEC specifications may result in damage to computer components. Warranty voided if Crucial DRAM modules are set to overclock beyond JEDEC specifications, rated speeds, and timings. Micron disclaims any and all liability for such damage.
7. DDR5 data rate of 4,800MT/s transfers 1.5x more data than the maximum standard DDR4 data rate of 3,200MT/s.
8. Densities at launch and those planned are defined by JEDEC for the life of the DDR5 generation of memory.
9. DDR5 modules (DIMMs) introduce voltage regulation on the module through a power management integrated circuit (PMIC), which enables better power regulation and reduces the scope of DRAM power delivery network (PDN) management on the motherboard for increased efficiency.
10. On-die ECC (ODECC) is a feature of the DDR5 component specification and should not be confused with the module-level ECC features on server and workstation RDIMMs, LRDIMMs, ECC UDIMMs and ECC. Crucial DDR5 Memory includes ODECC but does not include the additional components necessary for system level ECC.
11. Compared to published DDR4-3200 speeds.
12. Limited lifetime warranty valid everywhere except Germany and France, where warranty is valid for ten years from the date of purchase.
13. Includes 5-star Amazon reviews for Crucial desktop, laptop and memory for Mac DRAM products as of July, 2021.
14. Crucial DDR5 Memory is standard JEDEC memory. Memory speed is not controlled exclusively by the module itself but also by the memory controller in the CPU and the BIOS/firmware on the motherboard. XMP or EXPO support is provided on desktop memory (UDIMM) modules so customers can easily recover memory performance up to JEDEC speeds if experiencing a system-level downclocking of their memory. Performance recovery is not guaranteed on all DDR5 systems and is highly dependent on the CPU tier, motherboard tier, and BIOS stability.
15. DDR5 launch speeds of 4,800MT/s delivers 1.87x the bandwidth of the maximum standard DDR4 speeds of 3,200MT/s. Despite, true latency for DDR5-4800 being longer than DDR4-3200, because of the improved channel efficiency, DDR5 still outperforms DDR4 in effective bandwidth.

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