Crucial DDR5 Pro Memory: Overclocking Edition

Overclocking unlocked!

Low-latency overclocking DDR5 memory

Push performance to the next level with the blazing speed and massive bandwidth of Crucial® DDR5 Pro Memory: Overclocking Edition. With support for next-gen multi-core CPUs and the "sweet spot" speed[1] of 6,000MT/s, our overclocking memory harnesses the power of low latency so you can beat the clock and focus on outplaying your opponent instead of worrying about performance bottlenecks. With Intel® XMP 3.0 and AMD EXPO™ support[1] on every module, you can also eliminate compatibility issues and have the flexibility to build your rig your way. Available in 16GB densities with a unique, origami-inspired aluminum heat spreader for a winning aesthetic available in black or white. Unlock a new world of gaming performance with Crucial DDR5 Pro Memory: Overclocking Edition.

Best for

Newer gaming computing platforms

Key features

- Speed: 6,000MT/s[1]
- Extended timings: 36-38-38-80
- Densities: 16GB[8] (also available in kits)
- Performance: Intel® XMP 3.0 and AMD EXPO™ support[1]
- Compatibility: Intel® Core 12th Gen and above, and AMD Ryzen™ 7000 series and higher desktop CPUs[3]
- Design: Origami-inspired designed aluminum white heat spreader
- Warranty: Limited lifetime[9]

Cool look and feel

Our DDR5 Pro Overclocking Memory features an aluminum heat spreader available in black or white with a unique, origami-based design that is both cool to the touch and an aesthetic win for any rig.

Accelerated performance for more wins

Since every millisecond gained in fast-paced gameplay means the difference between winning and losing, seize the advantage with 25% lower latency[4] for higher frame rates per second. This makes for a smoother gaming experience that's ideal for memory-intensive games like Rainbow Six® Siege, Forza Horizon 4, or Hogwarts Legacy™ with Crucial DDR5 Pro Overclocking Memory.

Intel and AMD Compatible

Crucial DDR5 Pro Memory for overclocking is compatible[2] with Intel® Core 12-14th Gen and AMD Ryzen™ 7000 series and higher desktop CPUs.
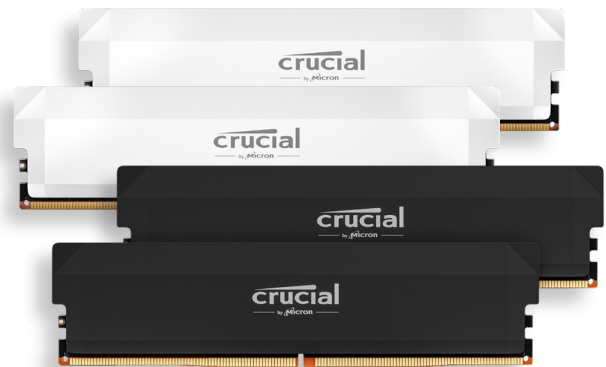
Flexibility is our flex

By supporting both Intel XMP 3.0 and AMD EXPO[1] on the same module, Crucial offers you ultimate flexibility with your build and a tactical advantage. Keep your options open by starting with Crucial DDR5 Pro for overclocking.

Micron quality and reliability

With 45 years of memory expertise, Micron delivers cutting-edge engineering and superior component and module-level testing for all Crucial DRAM products.

Crucial® DDR5 Pro Memory: Overclocking Edition	
Density	16GB[8]
Speed	6,000MT/s
CL/Timings	CL36 (36-38-38-80)
Voltage	1.35V
Pin count	288-pin

1. Crucial DDR5 desktop memory modules (UDIMMs) 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 August 2023. Altering clock frequency or voltage beyond rated speeds of 6,000MT/s and timing of 36-38-38-80 at 1.35V may result in damage to computer components and will void your Crucial warranty. Micron disclaims all liability for such damage.
2. Crucial DDR5 Pro Memory modules (UDIMMs) can only be installed in desktops/workstations built to support DDR5 DRAM, such as 12th and 13th Gen Intel® Core™ and AMD Ryzen™ 7000 Series desktop processors.
3. DDR5 data rate of 6,000MT/s transfers 1.88x the DDR4 data rate of 3,200MT/s.
4. Comparing the true memory latency of Crucial Pro DRAM Overclocking Edition of 12ns for 6000MT/s CL36 to the true memory latency of Crucial Pro DRAM Plug-and-Play edition of 16ns for 6000MT/s CL48. 12ns is 25% lower than 16ns of true memory latency.
5. Under memory-intensive workloads, DDR5 can deliver up to 2x the bandwidth, per an internal simulation of dual ranked x8 modules in client platforms.
6. 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.
7. 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.
8. Densities are defined by JEDEC for the life of the DDR5 generation of memory.
9. Limited lifetime warranty valid everywhere except Austria, Belgium, France and Germany, where warranty is valid for ten years from the date of purchase. DRAM components and modules are rated for 6,000MT/s 36-38-38-80 at 1.35V. Altering the module's clock frequency, speed, timings or voltage beyond its specifications may damage system components and will void its warranty. Micron disclaims all liability for damage caused by overclocking beyond 6,000MT/s 36-38-38-80 at 1.35V. Please check your CPU and motherboard manuals for their warranty information when overclocking.

Micron®