

I have added the general DDR5 Desktop and Laptop Memory flyers. See below.

I don't know if this helps, but I have included the already active 4800 versions of these new part numbers in the far-right column. The specs are the same, but these will just be faster speed versions (4800 à 5200 à 5600):

<b>New Part</b> The specs are the same as the part numbers in the right column, but these will just be faster speed versions (4800 à 5200 à 5600):	<b>Comparable Existing Part active 4800 versions</b>
CT32G52C42U5	CT32G48C42U5
CT16G56C46S5T	CT16G48C46S5T
CT16G56C46U5	CT16G48C46U5
CT2K16G56C46U5	CT2K16G48C46U5
CT2K32G52C42U5	CT2K32G48C42U5
CT2K32G56C46U5	CT2K32G48C46U5
CT32G56C46S5	CT32G48C46S5
CT32G56C46S5T	CT32G48C46S5T
CT32G56C46U5	CT32G48C46U5
CT32G56C46U5T	CT32G48C46U5T

# CRUCIAL DDR5 LAPTOP MEMORY



## DDR5 Not Just Faster. *Better.*

Crucial DDR5 Laptop Memory powers extreme on-the-go performance

Crucial DDR5 Laptop Memory has the high speed needed for the next generation of multi-core CPUs, but it's not just faster than DDR4, it's *better*<sup>1</sup>. This innovative technology empowers your laptop to multitask seamlessly, load, analyze, edit, and render faster — all with higher frame rates, significantly less lag, and optimized power efficiency over the previous generation<sup>2</sup>. Available in blazing speeds of 4800MT/s and densities of up to 32GB at launch, Crucial DDR5 Laptop Memory can enable your laptop<sup>3</sup> to harness the blazing speeds that were once only possible with extreme performance memory<sup>4</sup>.



Incredible performance  
up to 4800MT/s<sup>5</sup>



Nearly 2x the  
bandwidth of DDR4<sup>4</sup>



Limited lifetime  
warranty<sup>9</sup>

## Faster processing and file manipulation

Crucial DDR5 Laptop Memory can empower your computer to transfer data 50% faster than DDR4 at launch, resulting in shorter load times, file transfers, downloads, lag time and improved refresh rates<sup>5</sup>. Due to higher bus efficiency, DDR5 technology is not just faster than the previous generation, it's *better*<sup>1</sup>.

## Responsive multitasking on the go

Crucial DDR5 offers 50% faster speeds than DDR4 at launch<sup>4</sup>, empowering laptop users with extreme performance right out of the box. Even more impressive, Crucial DDR5 Laptop Memory is optimized for enhanced performance and multitasking, not just during testing, but in real-world conditions<sup>2</sup>. Opening more browser tabs and switching between apps now feels more responsive than ever.

## Improved productivity with innovative channel architecture

Significant improvements to DDR5 channel architecture can help you get more work done in less time. With nearly 2x the bandwidth of DDR4, enabled by faster speeds, longer burst lengths, twice the banks and bank groups, two 32-bit channels, and improved refresh schemes, Crucial DDR5 still outperforms DDR4 with higher latency numbers<sup>10</sup>.

## Optimized power efficiency

For improved efficiency and stability, Crucial DDR5 introduces on-module voltage regulation with a power management integrated circuit (PMIC), which was on the motherboard with older memory technologies. This results in improved signaling and cleaner power regulation for the modules (SODIMMs)<sup>7</sup>. Moreover, DDR5's on-module operating voltage is only 1.1V compared to DDR4's 1.2V.

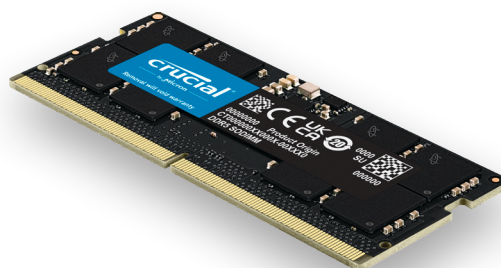
## Micron quality – tested reliability you can trust

As the vertically integrated consumer brand of Micron, Crucial is trusted by millions for reliability, performance, and compatibility. Unlike module assemblers, our unique relationship with Micron involves a deeper level of engineering collaboration to squeeze every ounce of performance from our products without compromising reliability. With Micron's 43+ years of manufacturing excellence and Crucial's 25+ years of consumer product development, Crucial DDR5 is backed by our limited lifetime warranty<sup>9</sup> and delivers the powerful performance you can trust. When it comes to memory, don't settle for less.

## Available Parts

Crucial DDR5 Laptop Memory is available for DDR5-enabled laptops.  
View our complete offering at [www.crucial.com](http://www.crucial.com).

Crucial® DDR5 Laptop Memory*	
Density	8GB, 16GB, 32GB
Speed	4800MT/s
Voltage	1.1V
Pin count	262-pin

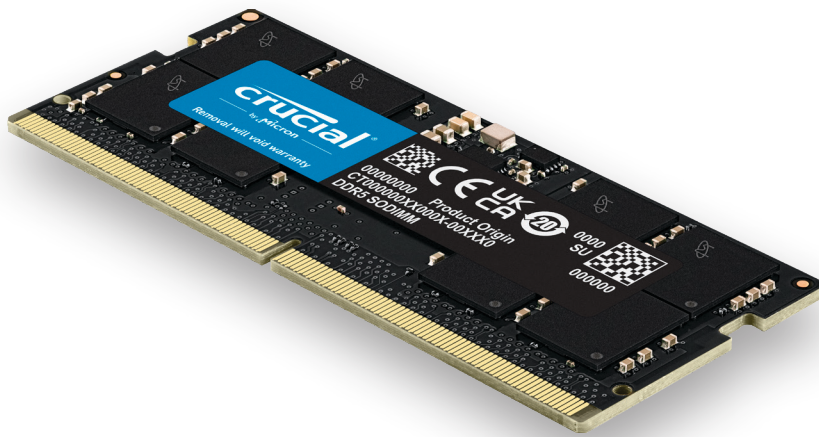


\*Laptop must be DDR5 enabled. Crucial DDR5 Laptop Memory is not compatible with DDR4 laptops.

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1. DDR5 architecture includes efficiency improvements that deliver 36% more system bandwidth than DDR4, even at the same theoretical speeds of 3200MT/s, per an internal simulation of dual ranked x8 modules in client platforms. Combined with lower voltage per module, this design provides superior (better) performance.
2. Under memory-intensive workloads, DDR5 can deliver up to 1.87x the bandwidth per an internal simulation of dual ranked x8 modules in client platforms, due to double burst length (16 instead of 8), double the banks (32 instead of 16) and bank groups (8 instead of 4), and significantly higher speed than DDR4. It is enabled to support scaling memory performance with improved channel efficiency, even at higher speeds, not just during testing, but under real-world condition, as established by JEDEC, an independent standardization body that develops open standards for the microelectronics industry.
3. Laptop must be DDR5 enabled. Crucial DDR5 Laptop Memory is not compatible with DDR4 laptops.
4. DDR5 launch speeds of 4800MT/s are comparable to extreme-performance DDR4 memory speeds and are 1.5x (50%) faster than maximum standard DDR4 speeds of 3200MT/s. DDR5 launch speeds of 4800MT/s deliver 1.87x the bandwidth of the maximum standard DDR4 speeds of 3200MT/s.
5. DDR5 launch data rate of 4800MT/s transfers 1.5x (50%) more data than the maximum standard DDR4 data rate of 3200MT/s. JEDEC projected speeds of 8400MT/s are 2.6x faster than DDR4's maximum standard data rate of 3200MT/s.
6. Densities at launch and those planned are defined by JEDEC for the life of the DDR5 generation of memory.
7. DDR5 modules (DIMMs) introduce voltage regulation on the module through a power management integrated circuit (PMIC), which enables cleaner power regulation and reduces the scope of DRAM power delivery network (PDN) management on the motherboard for increased efficiency.
8. Crucial DDR5 Laptop Memory is non-ECC memory. The ECC as it pertains to RDIMMs, LRDIMMs, ECC UDIMMs and ECC SODIMMs is a function that requires additional DRAM at the module level so that platforms, such as servers and workstations, can correct for errors on individual modules (DIMMs). On-die ECC (ODECC), however, is a feature of the DDR5 component specification and should not be confused with the module-level ECC feature. Crucial DDR5 Laptop Memory is built with DDR5 components that include ODECC, however these modules do not include the additional components necessary for system level ECC.
9. Limited lifetime warranty valid everywhere except Germany and France, where warranty is valid for ten years from the date of purchase.
10. DDR5 launch speeds of 4800MT/s delivers 1.87x the bandwidth of the maximum standard DDR4 speeds of 3200MT/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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[crucial.com/ddr5](https://crucial.com/ddr5)

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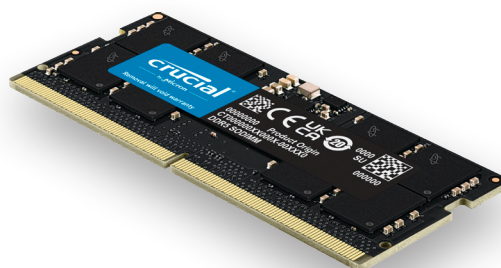
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