



CORSAIR DDR4 RAM Dominator Platinum RGB User Manual

[Home](#) » [Corsair](#) » CORSAIR DDR4 RAM Dominator Platinum RGB User Manual 

Contents

- [1 CORSAIR DDR4 RAM Dominator Platinum RGB](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 FAQs](#)
- [5 Documents / Resources](#)
 - [5.1 References](#)



CORSAIR DDR4 RAM Dominator Platinum RGB



Product Information

- **Specifications:**
 - DDR4 RAM
 - Faster speeds
 - Higher densities
 - Improved error correction
 - Consumes less power

Product Usage Instructions

- **DDR4 RAM Compatibility**
 - DDR4 RAM is not backward compatible with DDR3. Ensure that your motherboard supports DDR4 RAM before purchasing.
- **XMP Profiles**
 - **The DDR4 RAM comes with two XMP profiles:**
 - **XMP Profile 1:** Runs the DDR4 at its specification of 1.2V
 - **XMP Profile 2:** Offers higher speed but requires a voltage increase to 1.35V. It is recommended to use XMP Profile 1 for official support. If encountering stability issues, manually enter the speed and timings or use the default speeds until a BIOS update is available.
- **Installation and Stability**
 - When installing DDR4 RAM, refer to your motherboard's instruction manual and ensure that the DIMMs are installed in the primary set of memory channels first, to ensure stability.
 - If you are still encountering stability issues, please contact our tech support for assistance.
- **Combining Multiple Kits**

- It is strongly recommended NOT to combine multiple kits of CORSAIR DDR4 memory.
- Each kit is validated for its rated performance using only the modules provided within that specific kit.
- Combining multiple kits may result in the memory modules not reaching their rated performance specification.

• FAQ

- **Q:** Why do we need DDR4?
- **A:** DDR4 has replaced DDR3 due to faster speeds, higher densities, improved error correction, and lower power consumption.
- **Q:** Is DDR4 slower than DDR3?
- **A:** DDR4 can be slightly slower than DDR3 at the same clock speeds due to looser latencies. However, DDR4 compensates for this by achieving higher clock speeds.
- **Q:** Is DDR4 backwards compatible with DDR3?
- **A:** No, DDR4 and DDR3 have different key notches on the DIMM preventing them from being mixed up.
- **Q:** Does DDR4 have XMP?
- **A:** Yes, DDR4 employs XMP 2.0 specification while DDR3 remains on XMP 1.3.
- **Q:** Why are there two XMP profiles on my Corsair DDR4?
- **A:** The first XMP profile runs the DDR4 at its specification of 1.2V, while the second offers a higher speed at the cost of increased voltage to 1.35V.
- **Q:** Why am I encountering stability issues with XMP?
- **A:** If stability issues occur with XMP profiles, manually enter the speed and timings or run memory at default speeds until a BIOS update is available for improved stability.
- **Q:** I'm running at the default speed, but my system still isn't stable.
- **A:** Ensure that your DDR4 is installed in the primary set of memory channels according to your motherboard's instruction manual. If the issue persists, contact our tech support.
- **Q:** What's the difference between Dominator Platinum DDR4 and Vengeance LPX DDR4?
- **A:** Vengeance LPX is a mainstream DDR4 with a standard-height PCB and heat spreader, while Dominator Platinum DDR4 features a larger and more robust heat spreader.
- **Q:** Can I combine multiple kits of CORSAIR DDR4 memory?
- **A:** It is strongly recommended not to combine multiple kits of CORSAIR DDR4 memory to ensure the memory modules reach their rated performance specification.
- **Q:** Where can I learn more about DDR4?
- **A:** You can find a detailed whitepaper authored by us that provides more information about DDR4.

FAQS

DDR4 RAM FAQ

- **Q:** Where can I learn more about DDR4?
- **A:** We've authored a whitepaper that provides a much more detailed examination of this new memory technology. You can find it [here](#).

Q: Why do we need DDR4?

A: There are four major reasons why DDR4 has replaced DDR3: it's capable of hitting faster speeds, it's

capable of hitting higher densities, it has improved error correction built into the baseline specification, and it consumes less power for equivalent or better performance than DDR3. In short, DDR3 reached its limits and DDR4 has been able to push beyond that there shold.

Q: Is DDR4 slower than DDR3?

A: Because DDR4 uses looser latencies than DDR3 does, it can be slightly slower than DDR3 at the same clock speeds. What makes DDR4 important is that it can easily make up for that deficit by hitting higher clock speeds than DDR3 can. Getting DDR3 to run at 2666MHz or higher requires very careful binning of memory chips and can be very expensive, while 2666MHz is the lowest speed of our DDR4.

Q: Is DDR4 backwards compatible with DDR3?

A: No. DDR4 and DDR3 have key notches in different places on the DIMM to prevent them from being mixed up, and Haswell-E and X99 are DDR4 only.

Q: Does DDR4 have XMP?

A: Yes! DDR4 employs a new specification, XMP 2.0, while DDR3 remains on XMP 1.3.

Q: How does XMP work on DDR4?

A: Very similarly to DDR3, but with some caveats. For starters, Haswell-E tops out at a 2666MHz memory strap, which is very low for what DDR4 can do. Since XMP specifies speeds in excess of 2666MHz, your motherboard BIOS has to compensate somehow. Typically, when XMP tells the motherboard to use a higher memory speed than 2666MHz, the motherboard BIOS will bump the BCLK strap from 100MHz to 125MHz. That's normal, but that change will also increase the clock speed of the CPU itself; a well-designed BIOS will compensate and bring the CPU clock speed in line.

Q: Why are there two XMP profiles on my Corsair DDR4?

A: We include a pair of XMP profiles instead of just one for users who want to control how much power is consumed by the memory. The first XMP profile runs the DDR4 at its specification of 1.2V, while the second offers a higher speed at the cost of bumping the voltage to 1.35V. The first profile, then, is officially supported, while the second is not and instead offers a baseline of what the memory should be able to achieve.

Q: Why am I encountering stability issues with XMP?

A: If you have trouble with stability using either XMP profile, we recommend either manually entering the speed and timings the DDR4 is rated for or running your memory at its default speeds until your motherboard vendor provides a BIOS update to improve stability.

Q: I'm running at the default 2133MHz speed, but my system still isn't stable.

A: Double-check to see which memory slots your DDR4 is installed in against your motherboard's instruction manual. We've found that you have to install your DIMMs in the primary set of memory channels first, in

order, to ensure stability. If this checks out, please contact our tech support.

Q: What's the difference between Dominator Platinum DDR4 and Vengeance LPX DDR4?


A: Vengeance LPX is our mainstream DDR4, utilizing a standard-height PCB and heat spreader. Dominator Platinum DDR4 adds a larger, more robust heat spreader.

Q: Can I combine multiple kits of CORSAIR DDR4 memory?

A: We strongly recommend you do NOT combine multiple kits of CORSAIR DDR4 memory. Our memory kits are only validated for their rated performance when using only the modules provided within that specific kit (box). Combining multiple kits, even if they are rated for the same speed, may result in your memory modules not being able to reach their rated performance specification.



Documents / Resources

	<p>CORSAIR DDR4 RAM Dominator Platinum RGB [pdf] User Manual DDR4 RAM Dominator Platinum RGB, DDR4, RAM Dominator Platinum RGB, Dominator Platinum RGB, Platinum RGB</p>
---	---

References

- [User Manual](#)