

Corsair CMW16GX4M2C3000C15

Corsair Vengeance RGB PRO DDR4 3000MHz C15 Desktop Memory User Manual

Model: CMW16GX4M2C3000C15 | Brand: Corsair

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, configuration, and maintenance of your Corsair Vengeance RGB PRO DDR4 3000MHz C15 Desktop Memory. Please read this manual carefully before proceeding with installation to ensure proper setup and optimal performance.

Package Contents

- 2 x 8GB Corsair Vengeance RGB PRO DDR4 3000MHz C15 Memory Modules

2. FEATURES

- High performance DDR4 memory with vivid, animated lighting from ten ultra-bright, individually addressable RGB LEDs per module.
- Control and synchronize lighting across all Corsair iCUE compatible products using Corsair iCUE software.
- Customize lighting profiles with millions of patterns and colors, or create custom effects in Corsair iCUE software.
- Compatible with Intel and AMD DDR4 motherboards.
- Wire-free design for simple and seamless installation.
- Custom performance PCB for high signal quality and performance stability.
- Carefully screened ICs for extended overclocking potential.
- Built-in aluminum heat spreader for superb memory cooling, even when overclocked.
- Supports Intel XMP 2.0 for simple one-setting installation and optimum performance.

3. SETUP & INSTALLATION

Before installing the memory modules, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

3.1 Preparing Your System

1. Power down your computer completely.
2. Unplug the power cable from the wall outlet.
3. Open your computer case to access the motherboard.
4. Locate the DIMM slots on your motherboard. Consult your motherboard manual for the correct slots to use for dual-channel memory configuration.

3.2 Installing the Memory Modules

1. Gently push down the retention clips at both ends of the DIMM slot.
2. Align the memory module with the DIMM slot, ensuring the notch on the module matches the key in the slot.
3. Apply firm, even pressure to both ends of the memory module until it clicks into place and the retention clips snap shut.
4. Repeat for the second memory module in the appropriate dual-channel slot as indicated by your motherboard manual.



Image: Corsair Vengeance RGB PRO memory modules correctly installed in a desktop motherboard.



Image: Top-down view showing the installation of Corsair Vengeance RGB PRO memory modules.

3.3 Post-Installation

1. Close your computer case.
2. Reconnect the power cable and power on your computer.
3. During boot-up, enter your system's BIOS/UEFI settings.
4. Enable the Intel XMP 2.0 profile (or AMD equivalent) to ensure the memory runs at its advertised speed (3000MHz). Save and exit BIOS/UEFI.

Installation Video

Your browser does not support the video tag.

Video: A detailed guide on installing Corsair Vengeance RGB memory modules into a motherboard.

4. OPERATION & SOFTWARE

The Corsair Vengeance RGB PRO memory modules feature dynamic multi-zone RGB lighting. To customize and

synchronize these lighting effects, you will need to install the Corsair iCUE software.

4.1 Corsair iCUE Software

1. Download the latest version of Corsair iCUE software from the official Corsair website (www.corsair.com/icue).
2. Install the software by following the on-screen instructions.
3. Launch iCUE. Your Vengeance RGB PRO modules should be detected automatically.
4. Within iCUE, you can customize individual LED lighting, choose from various preset lighting effects, or create your own. You can also synchronize lighting with other Corsair iCUE compatible devices.

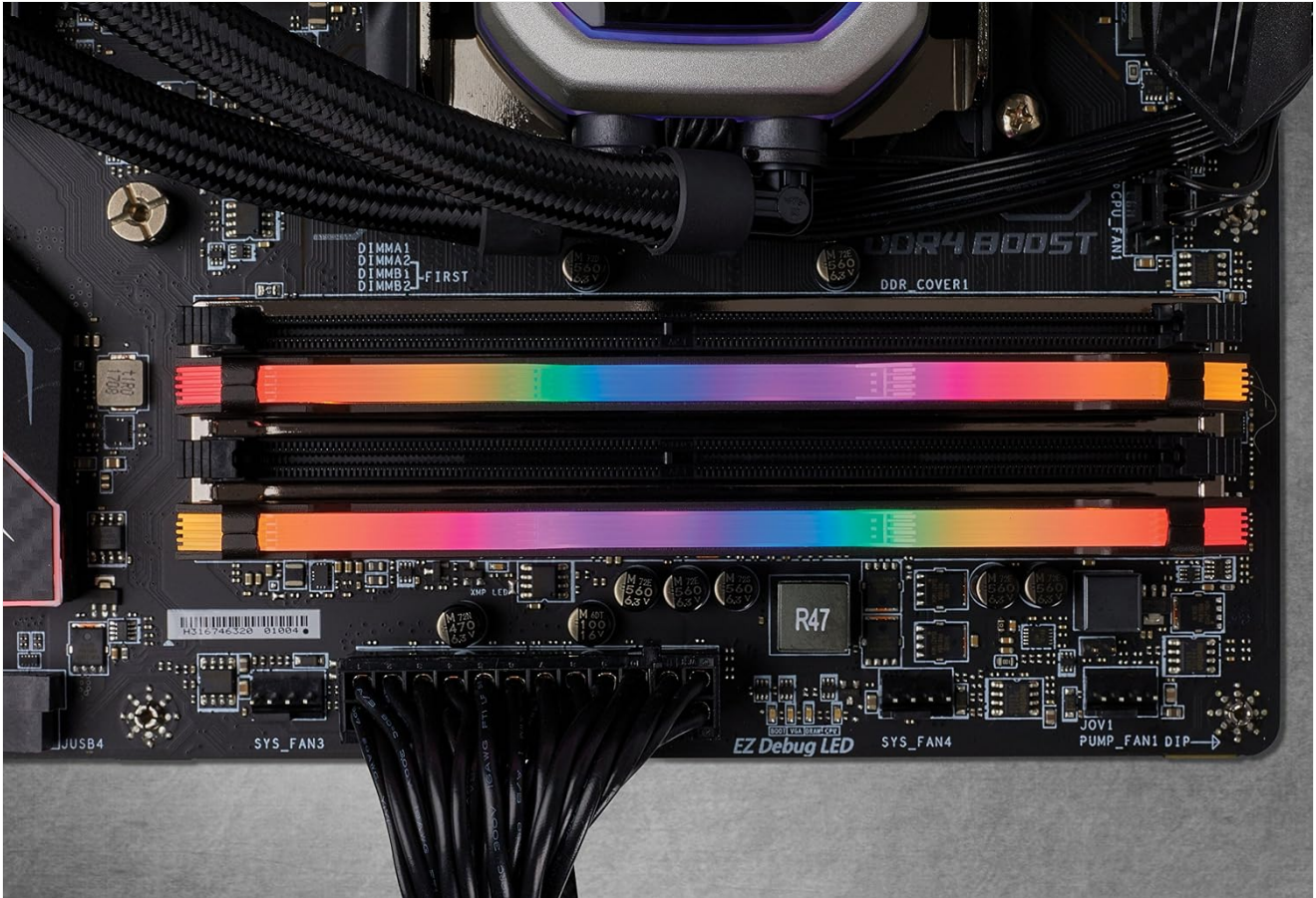


Image: Close-up of Corsair Vengeance RGB PRO memory displaying customizable RGB lighting within a PC.



Image: A complete PC setup showcasing synchronized RGB lighting across multiple Corsair components, including Vengeance RGB PRO memory.

4.2 XMP Profile Activation

To achieve the rated speed of 3000MHz, the XMP (Extreme Memory Profile) must be enabled in your motherboard's BIOS/UEFI settings. Refer to your motherboard's manual for specific instructions on how to access and enable XMP.

Your browser does not support the video tag.

Video: An overview of Corsair Vengeance RGB PRO memory, including its features and potential for XMP tuning.

5. SPECIFICATIONS

Brand	Corsair
Model Name	Vengeance RGB PRO
Model Number	CMW16GX4M2C3000C15
Computer Memory Size	16 GB (2x8GB)
RAM Memory Technology	DDR4
Memory Speed	3000 MHz
Column Address Strobe Latency	15
Voltage	1.35 Volts
Form Factor	DIMM (288-pin)
Compatible Devices	Desktop

6. TROUBLESHOOTING

6.1 System Does Not Boot After Installation

- **Check Seating:** Ensure both memory modules are fully seated in their DIMM slots. The retention clips should be securely closed.
- **Correct Slots:** Verify that the modules are installed in the correct dual-channel slots as specified by your motherboard manual. Incorrect slot usage can prevent booting.
- **Clear CMOS:** If the system still doesn't boot, try clearing the CMOS (Complementary Metal-Oxide-Semiconductor) settings on your motherboard. Refer to your motherboard manual for instructions.
- **Test Individually:** If you have multiple modules, try booting with only one module installed at a time to identify a potentially faulty module.

6.2 Memory Not Running at Advertised Speed (3000MHz)

- **Enable XMP:** The memory's rated speed is achieved by enabling the XMP (Extreme Memory Profile) in your motherboard's BIOS/UEFI settings. This is not automatically enabled.
- **BIOS Update:** Ensure your motherboard's BIOS/UEFI is updated to the latest version, as this can improve memory compatibility and stability.
- **Motherboard Compatibility:** Verify that your motherboard officially supports DDR4 memory at 3000MHz. Consult your motherboard's QVL (Qualified Vendor List) for compatible memory kits.

6.3 RGB Lighting Issues

- **iCUE Software:** Ensure Corsair iCUE software is installed and up to date. Most RGB customization and synchronization is managed through this software.
- **Software Conflicts:** If you have other RGB control software installed (e.g., from your motherboard or other peripherals), they might conflict with iCUE. Try disabling other RGB software or ensuring iCUE has priority.
- **Reinstall iCUE:** If issues persist, try a clean reinstallation of the iCUE software.

7. MAINTENANCE

Corsair Vengeance RGB PRO memory modules are designed for durability and require minimal maintenance. However, general PC maintenance practices can help ensure their longevity and optimal performance.

- **Dust Removal:** Periodically clean dust from inside your PC case, especially around the memory modules and their heat spreaders, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Temperature Monitoring:** Ensure adequate airflow within your PC case to maintain optimal operating temperatures for all components, including RAM.
- **Software Updates:** Keep your Corsair iCUE software and motherboard BIOS/UEFI updated to benefit from performance improvements and bug fixes.

8. WARRANTY & SUPPORT

8.1 Warranty Information

This Corsair Vengeance RGB PRO DDR4 memory kit is covered by a Limited Lifetime warranty. This warranty covers defects in material and workmanship under normal use. For full details on warranty terms and conditions, please visit the official Corsair website.

8.2 Technical Support

If you encounter any issues or require technical assistance, please contact Corsair Technical Support:

- **Phone:** 1-888-222-4346 (Option 1)
- **Website:** Visit the Corsair support page for FAQs, drivers, and online support tickets.