Corsair CMH32GX5M2B6400C36

CORSAIR VENGEANCE RGB DDR5 RAM Instruction Manual

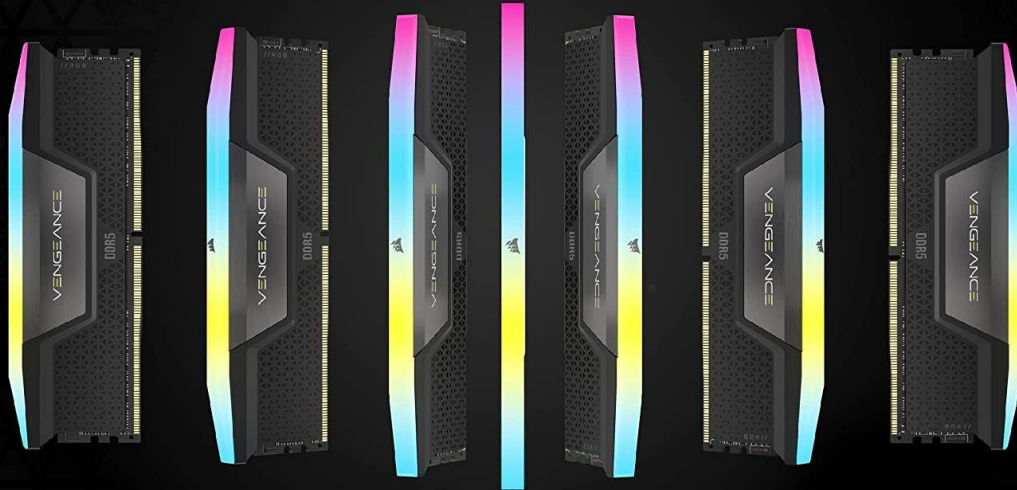Model: CMH32GX5M2B6400C36

1. PRODUCT OVERVIEW

The CORSAIR VENGEANCE RGB DDR5 memory delivers high-performance DDR5 technology, offering increased frequencies and greater capacities. It is optimized for Intel motherboards and features dynamic, individually addressable ten-zone RGB lighting. This memory is designed for faster processing, rendering, and buffering, with onboard voltage regulation for precise overclocking control.

Key Features:

- **Dynamic Ten-Zone RGB Lighting:** Illuminate your system with ten individually addressable, ultra-bright RGB LEDs per module, encased in a panoramic light bar for vivid RGB lighting from any viewing angle.
- **Onboard Voltage Regulation:** Enables easier, more finely-tuned, and more stable overclocking through CORSAIR iCUE software than previous generation motherboard control.
- **Custom Intel XMP 3.0 Profiles:** Customize and save your own XMP profiles via iCUE to tailor performance by application or task for greater efficiency.
- **Create and Customize:** Choose from dozens of preset lighting profiles, or create your own in iCUE.
- **Maximum Bandwidth and Tight Response Times:** Optimized for peak performance on the latest Intel DDR5 motherboards.

Image: CORSAIR VENGEANCE RGB DDR5 RAM modules showcasing dynamic RGB lighting.

This memory kit is ideal for gamers, content creators, and PC enthusiasts seeking both high performance and aesthetic customization.

2. SETUP AND INSTALLATION

2.1 Pre-installation Checklist:

- Ensure your motherboard supports DDR5 RAM. Refer to your motherboard's manual for compatible memory types and configurations.
- Power off your computer and unplug it from the wall outlet.
- Discharge any static electricity by touching a grounded metal object (e.g., your PC case).
- Open your PC case to access the motherboard.

2.2 Installing the Memory Modules:

1. Locate the DIMM slots on your motherboard. For optimal performance with two modules, consult your motherboard manual for the recommended dual-channel configuration (often slots A2 and B2).
2. Gently push open the retention clips at both ends of the DIMM slot.

3. Align the notch on the DDR5 memory module with the key in the DIMM slot. DDR5 modules have a single notch that prevents incorrect insertion.

4. Place the module into the slot and apply firm, even pressure to both ends of the module until the retention clips snap into place. You should hear an audible click.

5. Repeat the process for the second memory module in the designated slot.

Image: CORSAIR VENGEANCE RGB DDR5 RAM modules correctly installed in a motherboard, displaying their RGB lighting.

2.3 Video Guide: How to Install DDR5 RAM

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Video: A guide demonstrating the process of installing DDR5 RAM modules into a motherboard. This video shows the physical installation steps, including aligning the module and securing it in the DIMM slot.

3. OPERATING AND CUSTOMIZATION

3.1 RGB Lighting Customization with CORSAIR iCUE:

The CORSAIR VENGEANCE RGB DDR5 RAM features dynamic ten-zone RGB lighting that can be fully

customized using the CORSAIR iCUE software. This software allows you to:

- Choose from dozens of preset lighting profiles.
- Create your own unique lighting effects and patterns.
- Synchronize RGB lighting across all compatible CORSAIR devices for a unified aesthetic.
- Monitor real-time frequency readings and temperatures.

Download the latest version of CORSAIR iCUE software from the official CORSAIR website (www.corsair.com/icue).
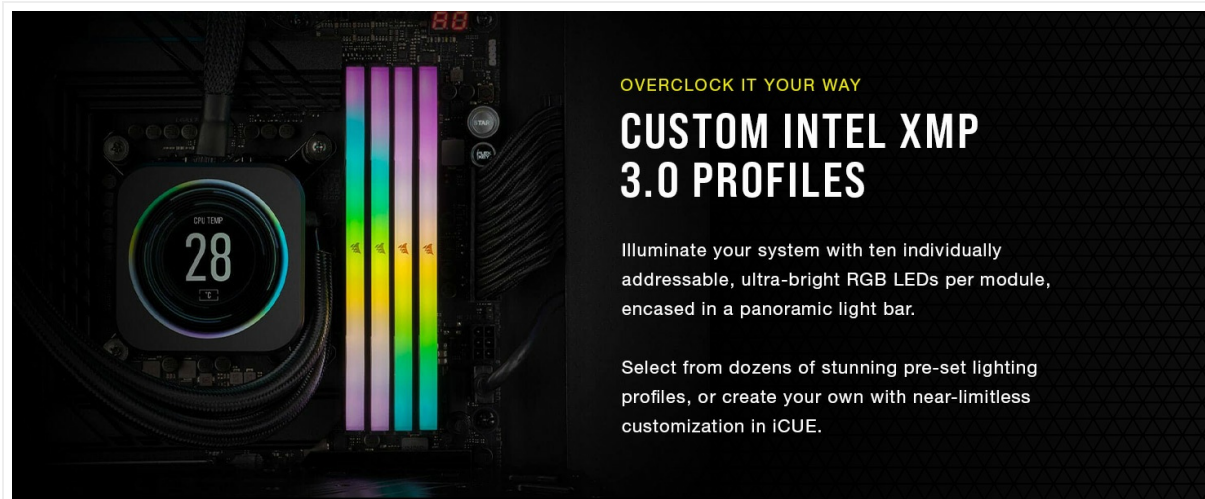

Image: Screenshot of CORSAIR iCUE software interface, demonstrating the extensive RGB customization options available for the VENGEANCE RGB DDR5 RAM.

3.2 Intel XMP 3.0 Profile Activation:

To achieve the advertised speeds and optimal performance of your CORSAIR VENGEANCE RGB DDR5 RAM, you must enable the Intel XMP 3.0 profile in your motherboard's BIOS/UEFI settings. This process typically involves:

1. Booting into your system's BIOS/UEFI (usually by pressing DEL or F2 during startup).
2. Navigating to the 'Overclocking', 'Memory', or 'Advanced' settings.
3. Locating the XMP (Extreme Memory Profile) setting and enabling it.
4. Selecting the appropriate XMP 3.0 profile (e.g., 6400MHz CL36).
5. Saving the changes and exiting the BIOS/UEFI.

Refer to your motherboard's manual for specific instructions on accessing and configuring XMP profiles, as menu options may vary.
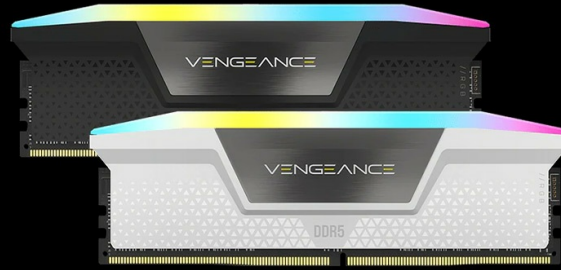
Image: CORSAIR VENGEANCE RGB DDR5 RAM modules highlighting the Intel XMP Ready feature, indicating compatibility with performance profiles.

4. MAINTENANCE

Maintaining your CORSAIR VENGEANCE RGB DDR5 RAM involves general PC care to ensure longevity and optimal performance:

- **Keep your PC clean:** Regularly clean the interior of your PC case to prevent dust buildup on components, including RAM modules. Dust can hinder heat dissipation and affect performance. Use compressed air for this purpose.
- **Ensure proper airflow:** Good airflow within your PC case helps maintain optimal operating temperatures for all components, including RAM. Ensure case fans are functioning correctly and not obstructed.
- **Avoid physical damage:** Handle memory modules with care. Avoid touching the gold contacts directly. When installing or removing, apply gentle, even pressure.
- **Software updates:** Keep your motherboard BIOS/UEFI and CORSAIR iCUE software updated to benefit from performance improvements and bug fixes.

5. TROUBLESHOOTING

5.1 Common Issues and Solutions:

- **System Not Booting / RAM Not Detected:**

  - Ensure the memory modules are fully seated in their DIMM slots. Re-seat them by pressing firmly until the clips lock.
  - Verify that the modules are installed in the correct slots for your motherboard's dual-channel configuration (refer to your motherboard manual).
  - Test each module individually in a known working slot to identify a faulty module.

- **XMP Profile Not Working / System Instability with XMP:**

  - Update your motherboard's BIOS/UEFI to the latest version. Manufacturers often release updates for improved memory compatibility.
  - Ensure your motherboard is compatible with the specified XMP speed and timings. Check the motherboard's Qualified Vendor List (QVL) for your specific RAM model.

- If the highest XMP profile causes instability, try a lower XMP profile if available, or manually adjust memory timings and voltage (only for advanced users).

- **RGB Lighting Issues:**

  - Ensure CORSAIR iCUE software is installed and up to date.
  - Check that the memory modules are properly detected within iCUE.
  - Verify that the RGB lighting cables (if any, though usually integrated for DDR5) are securely connected.
  - Try resetting the lighting effects within iCUE or reinstalling the software.

5.2 Video Guide: Corsair Vengeance DDR5 32GB 6400 - Review (Includes RGB settings discussion)

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Video: A review of the Corsair Vengeance DDR5 32GB 6400 RAM, which includes insights into its performance and a discussion on RGB settings, useful for understanding customization and potential issues.

6. SPECIFICATIONS

Feature	Detail
Brand	Corsair
Series	VENGEANCE RGB DDR5
Model Number	CMH32GX5M2B6400C36
RAM Memory Technology	DDR5 RAM
Computer Memory Size	32 GB (2x16GB)
Memory Speed	6400 MHz
Voltage	1.35 Volts
Compatible Devices	Desktop (Optimized for Intel DDR5 motherboards)
Color	Black
Item Weight	3.52 ounces
Product Dimensions	5.43 x 0.27 x 1.77 inches

7. WARRANTY AND SUPPORT

7.1 Warranty Information:

CORSAIR VENGEANCE RGB DDR5 RAM modules typically come with a **limited lifetime warranty**. This warranty covers defects in material and workmanship under normal use. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the official CORSAIR website.

7.2 Technical Support:

For further assistance, technical support, or warranty claims, please visit the official CORSAIR support page:

CORSAIR Support Website

You may also find helpful resources, FAQs, and community forums on the CORSAIR website.