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> CORSAIR Vengeance RGB DDR5 RAM (1x32GB) 5200MHz User Manual

Corsair CMH32GX5M1B5200Z40

CORSAIR Vengeance RGB DDR5 RAM (1x32GB) 5200MHz User Manual

Model: CMH32GX5M1B5200Z40

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your CORSAIR Vengeance RGB DDR5 memory module. This high-performance DDR5 RAM is designed for desktop computers, offering enhanced frequencies and capacities, optimized for both AMD EXPO and Intel XMP 3.0 platforms.

The module features dynamic, individually addressable ten-zone RGB lighting and onboard voltage regulation for stable overclocking.

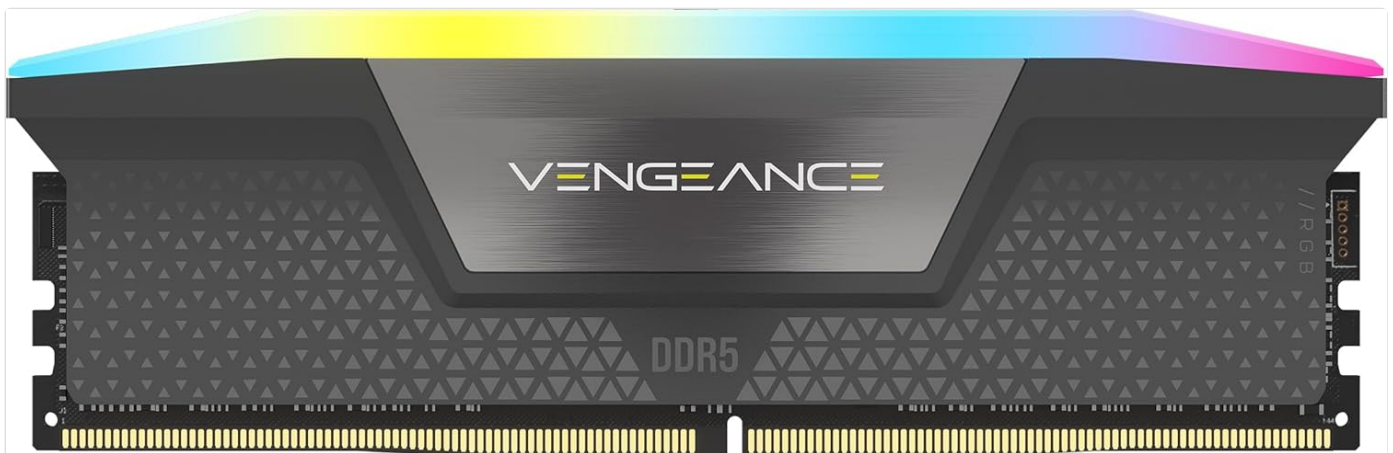


Image 1.1: CORSAIR Vengeance RGB DDR5 RAM module. This image displays a single memory module with its heat spreader and RGB light bar.

2. PACKAGE CONTENTS

- One (1) CORSAIR Vengeance RGB DDR5 32GB (1x32GB) 5200MHz Memory Module



Image 2.1: CORSAIR Vengeance RGB DDR5 RAM module and its retail packaging. The packaging highlights the product name and compatibility.

3. INSTALLATION GUIDE

Proper installation of the memory module is crucial for system stability and performance. Always handle memory modules by their edges to avoid touching the gold contacts or components.

1. Preparation:

- Power off your computer completely and unplug the power cord from the wall outlet.
- Open your computer case.
- Discharge any static electricity by touching a grounded metal object, such as the unpainted metal of your computer chassis.

2. Locate DIMM Slots:

- Identify the DDR5 DIMM slots on your motherboard. Consult your motherboard manual for specific slot configurations, especially if installing multiple modules for dual-channel operation.

3. Open Retention Clips:

- Gently push open the retention clips at both ends of the DIMM slot.

4. Insert Memory Module:

- Align the notch on the memory module with the key in the DIMM slot. DDR5 modules have a specific notch placement to prevent incorrect insertion.
- Apply firm, even pressure to both ends of the module until it seats fully into the slot and the retention clips snap into place.

5. Secure and Close:

- Ensure both retention clips are securely closed.
- Close your computer case and reconnect the power cord.



Image 3.1: Multiple CORSAIR Vengeance RGB DDR5 RAM modules installed in a motherboard, showcasing their illuminated RGB light bars.

4. OPERATING INSTRUCTIONS

4.1. Enabling AMD EXPO / Intel XMP 3.0

To achieve the advertised speeds (5200MHz) and optimal performance, you must enable the AMD EXPO or Intel XMP 3.0 profile in your motherboard's BIOS/UEFI settings. These profiles contain pre-configured timings and voltages for stable operation at higher frequencies.

1. Access BIOS/UEFI:

- Restart your computer.
- During startup, repeatedly press the designated key (commonly Del, F2, F10, or F12) to enter the BIOS/UEFI setup. Consult your motherboard manual for the exact key.

2. Locate EXPO/XMP Setting:

- Navigate to the "Overclocking," "Memory," or "Advanced" section of your BIOS/UEFI.
- Look for an option labeled "AMD EXPO," "Intel XMP," "D.O.C.P.," or similar.

3. Enable Profile:

- Select the appropriate profile (e.g., "Profile 1" or "Enabled").

4. Save and Exit:

- Save your changes and exit the BIOS/UEFI. Your system will restart with the new memory settings applied.



Image 4.1: CORSAIR Vengeance RGB DDR5 memory modules highlighting compatibility with both Intel XMP and AMD EXPO platforms.



Image 4.2: CORSAIR Vengeance RGB DDR5 RAM modules installed in a system, illustrating the effect of enabling performance profiles for optimal operation.

4.2. RGB Lighting Control with CORSAIR iCUE Software

The CORSAIR Vengeance RGB DDR5 memory features dynamic ten-zone RGB lighting. To customize and synchronize the lighting effects, download and install the CORSAIR iCUE software from the official CORSAIR website.

- **Download iCUE:** Visit www.corsair.com/icue to download the latest version of the software.
- **Installation:** Follow the on-screen instructions to install iCUE.
- **Customization:** Once installed, launch iCUE. Your Vengeance RGB DDR5 modules should be detected automatically. You can then select from various lighting effects, colors, and synchronize them with other CORSAIR iCUE-compatible devices.



Image 4.3: CORSAIR Vengeance RGB DDR5 RAM modules showcasing their dynamic ten-zone RGB lighting, controllable via iCUE software.

5. MAINTENANCE

Memory modules generally require minimal maintenance. Follow these guidelines to ensure longevity and optimal performance:

- **Dust Removal:** Periodically clean the inside of your computer case to prevent dust buildup on components, including RAM. Use compressed air to gently blow away dust from the memory modules and surrounding areas.
- **Temperature Control:** Ensure adequate airflow within your computer case to maintain optimal operating

temperatures for all components.

- **Handling:** When handling memory modules, always hold them by the edges and avoid touching the gold contacts or integrated circuits.

6. TROUBLESHOOTING

If you encounter issues after installing your CORSAIR Vengeance RGB DDR5 memory, consider the following troubleshooting steps:

- **System Not Booting / No Display:**

- Ensure the memory module is fully seated in its DIMM slot and the retention clips are closed.
- Verify that the module is inserted into the correct DIMM slot(s) as per your motherboard manual.
- Try reseating the module.
- If you have multiple modules, try booting with only one module installed to identify a potentially faulty module.

- **Memory Not Detected at Advertised Speed:**

- Access your motherboard's BIOS/UEFI settings (refer to Section 4.1).
- Confirm that the AMD EXPO or Intel XMP 3.0 profile is enabled.
- Ensure your motherboard BIOS is updated to the latest version, as this often improves memory compatibility and stability.

- **System Instability / Blue Screens:**

- This can sometimes indicate unstable memory settings. Ensure EXPO/XMP is correctly configured.
- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic or MemTest86) to check for errors.
- If overclocking manually, revert to default settings or a less aggressive profile.

If issues persist, contact CORSAIR customer support for further assistance.

7. SPECIFICATIONS

CORSAIR Vengeance RGB DDR5 RAM (CMH32GX5M1B5200Z40)

Feature	Detail
Model Number	CMH32GX5M1B5200Z40
Memory Type	DDR5
Capacity	32GB (1x32GB)
Speed	5200MHz
Tested Latency	CL40-40-40-77
Voltage	1.25V
Format	DIMM
LED	RGB (Ten-Zone)
Software Control	CORSAIR iCUE

Feature	Detail
Pin Out	288-pin
Technology	AMD EXPO & Intel XMP 3.0
Heatspreader	Aluminum
Compatibility	AMD X670 Series, Intel 700 Series
Item Weight	1.76 ounces
Product Dimensions (LxWxH)	5.43 x 0.27 x 1.77 inches

8. WARRANTY AND SUPPORT

CORSAIR provides a limited warranty for its memory products. For detailed warranty information, please refer to the official CORSAIR website or the warranty card included with your product.

For technical support, troubleshooting assistance, or warranty claims, please visit the CORSAIR support portal:

[CORSAIR Support Website](#)

When contacting support, please have your product model number (CMH32GX5M1B5200Z40) and proof of purchase readily available.

