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Corsair CMH32GX4M2D3600C18W

CORSAIR Vengeance RGB PRO SL DDR4 RAM User Manual

Model: CMH32GX4M2D3600C18W

Brand: Corsair

1. INTRODUCTION AND OVERVIEW

The CORSAIR Vengeance RGB PRO SL DDR4 memory is designed to enhance your PC's performance and aesthetics. This memory kit features a compact form factor, standing just 44mm tall, ensuring wide compatibility with various CPU coolers. Each module is equipped with ten individually addressable, ultra-bright RGB LEDs, providing brilliant and customizable illumination for your system.

Key features include:

- Vivid, animated lighting from ten individually addressable RGB LEDs per module.
- Customizable lighting profiles via CORSAIR iCUE software.
- Compact 44mm height for broad compatibility with air coolers.
- Optimized for maximum bandwidth and tight response times on Intel and AMD DDR4 motherboards.
- Custom performance PCB for superior signal quality and stability.
- Tightly screened memory chips for extended overclocking potential.
- Synchronization of RGB lighting with other CORSAIR RGB products using iCUE software.
- Solid aluminum heat-spreader for improved thermal conductivity and modern styling.
- Supports Intel XMP 2.0 for simple one-setting installation and setup.

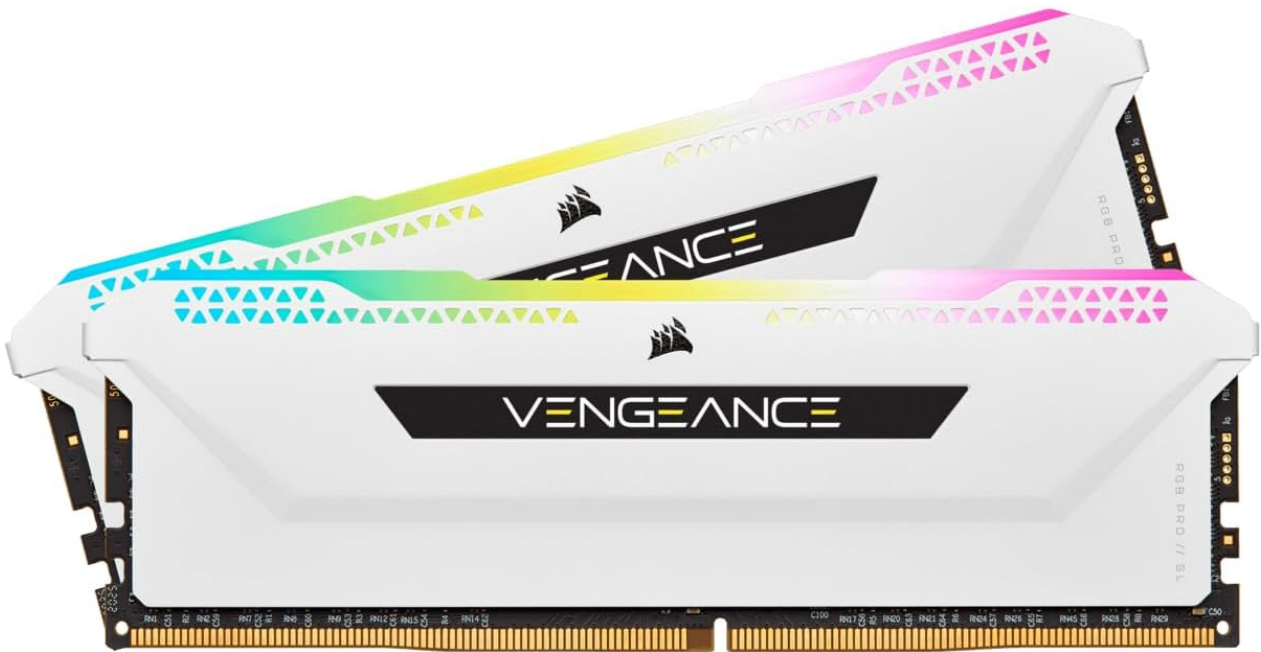


Image: Two CORSAIR Vengeance RGB PRO SL DDR4 RAM modules, showcasing their white heat spreaders and vibrant RGB lighting.

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Video: An official overview of Corsair Vengeance Desktop Memory, highlighting its features and design.

2. SETUP AND INSTALLATION

Installing your CORSAIR Vengeance RGB PRO SL DDR4 RAM is a straightforward process. Always ensure your computer is powered off and unplugged before handling internal components.

2.1 Safety Precautions

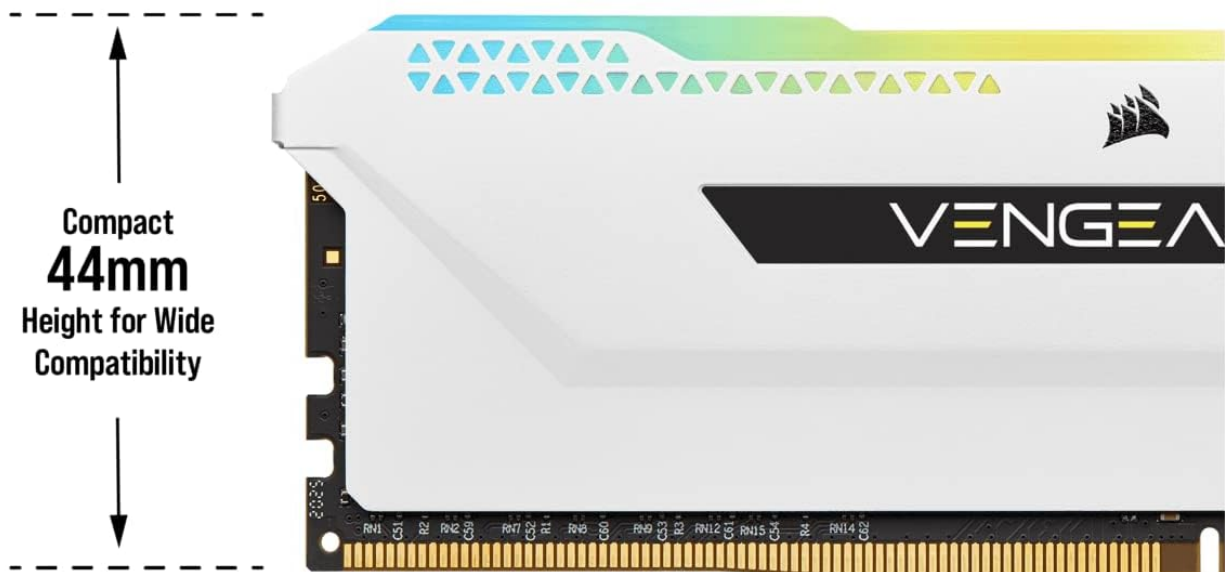
- Always power off your computer and unplug it from the wall outlet.
- Discharge any static electricity by touching a grounded metal object (e.g., your computer case).
- Handle RAM modules by their edges to avoid touching the gold contacts.

2.2 Installation Steps

1. **Open your PC Case:** Remove the side panel of your computer case to access the motherboard.
2. **Locate DIMM Slots:** Identify the DDR4 DIMM slots on your motherboard. Consult your motherboard manual for the correct slot configuration for dual-channel memory.
3. **Open Retention Clips:** Gently push down the small plastic clips at each end of the DIMM slot to open them.
4. **Align and Insert RAM:** Align the notch on the RAM module with the key in the DIMM slot. Apply even pressure to both ends of the module until it clicks into place and the retention clips snap shut.
5. **Secure the Case:** Once all modules are installed, close your PC case and reconnect all cables.
6. **Power On:** Power on your computer. The system should automatically detect the new memory.

TEN INDIVIDUALLY ADDRESSABLE RGB LEDs

Choose from dozens of preset lighting profiles, or create your own dynamic RGB lighting in CORSAIR iCUE software.



Customize and synchronize RGB lighting, get real-time frequency readings, and more with CORSAIR iCUE software.



Image: A diagram illustrating the compact 44mm height of the RAM modules, emphasizing compatibility with various CPU coolers.

3. OPERATING AND CUSTOMIZATION

3.1 Activating XMP Profile

To ensure your CORSAIR Vengeance RGB PRO SL RAM operates at its advertised speed (3600MHz), you must enable the Intel XMP 2.0 (Extreme Memory Profile) in your motherboard's BIOS/UEFI settings. This is a simple one-setting adjustment that configures your memory for optimal performance.

1. Restart your computer and enter the BIOS/UEFI setup (usually by pressing DEL, F2, or F10 during boot-up).
2. Navigate to the 'Overclocking', 'Advanced', or 'AI Tweaker' section (menu names vary by motherboard manufacturer).
3. Locate the 'XMP Profile' or 'DOCP' setting and enable it, selecting the profile that matches your RAM's specifications (e.g., 3600MHz).
4. Save changes and exit the BIOS/UEFI. Your system will restart with the optimized memory settings.

3.2 RGB Lighting Customization with CORSAIR iCUE

The CORSAIR iCUE software allows you to fully customize the vibrant RGB lighting of your Vengeance RGB PRO SL modules. You can choose from dozens of preset lighting profiles or create your own dynamic effects.

- Download and install the latest version of CORSAIR iCUE software from the official Corsair website: www.corsair.com/icue.
- Launch iCUE and select your Vengeance RGB PRO SL memory modules from the device list.
- Explore the various lighting effects, colors, and patterns available.
- Synchronize lighting with other CORSAIR RGB products for a unified system aesthetic.
- Create and save custom lighting profiles to suit your preferences.

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Video: A product overview video demonstrating the features and visual appeal of the CORSAIR Vengeance RGB PRO SL RAM.

4. MAINTENANCE

To ensure the longevity and optimal performance of your CORSAIR Vengeance RGB PRO SL DDR4 RAM, follow these simple maintenance guidelines:

- **Keep Clean:** Periodically clean the interior of your PC case to prevent dust buildup on the RAM modules and other components. Use compressed air to gently remove dust.
- **Avoid Physical Damage:** Handle RAM modules carefully. Avoid dropping them or applying excessive force.
- **Static Electricity:** Always take anti-static precautions when handling RAM to prevent damage from electrostatic discharge (ESD).
- **Temperature Control:** Ensure adequate airflow within your PC case to maintain optimal operating temperatures for all components, including RAM.

5. TROUBLESHOOTING

If you encounter issues with your CORSAIR Vengeance RGB PRO SL DDR4 RAM, consider the following troubleshooting steps:

5.1 RAM Not Detected or Incorrect Capacity

- **Reseat Modules:** Power off your PC, unplug it, and carefully reseat the RAM modules in their slots, ensuring they are fully clicked into place.
- **Check Motherboard Manual:** Verify that the RAM modules are installed in the correct DIMM slots according to your motherboard's manual for dual-channel operation.
- **Test Individually:** If you have multiple modules, test them one by one in a single slot to identify a potentially faulty module.
- **BIOS Update:** Ensure your motherboard's BIOS/UEFI is updated to the latest version, as this can improve memory compatibility.

5.2 Incorrect Memory Speed (e.g., lower than 3600MHz)

- **Enable XMP:** As described in Section 3.1, ensure the Intel XMP 2.0 profile is enabled in your motherboard's BIOS/UEFI settings.
- **Motherboard Support:** Confirm that your motherboard and CPU officially support DDR4-3600MHz memory speeds.

5.3 RGB Lighting Issues

- **iCUE Software:** Ensure CORSAIR iCUE software is installed and up-to-date. Restart the software or your PC.
- **Check Connections:** Verify that the RAM modules are properly seated, as loose connections can affect RGB functionality.
- **Software Conflicts:** If you have other RGB control software installed, try disabling them to check for conflicts with iCUE.

6. SPECIFICATIONS

Feature	Detail
Brand	Corsair
Model Name	Vengeance RGB PRO SL
Model Number	CMH32GX4M2D3600C18W
Computer Memory Size	32 GB (2x16GB)
RAM Memory Technology	DDR4 DIMM
Memory Speed	3600 MHz
Voltage	1.35 Volts
Column Address Strobe Latency	CL18 (18-22-22-42)
Form Factor	DIMM (44mm height)
Number of Pins	288
Compatible Devices	Intel 300/400/500 Series, AMD 500 Series, AMD X570 Motherboards
Additional Features	RGB LED Lights, Lightweight, Intel XMP 2.0 Support
Item Weight	0.12 Kilograms
UPC	840006632085

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The CORSAIR Vengeance RGB PRO SL DDR4 RAM comes 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 official Corsair warranty policy.

7.2 Customer Support

For technical assistance, warranty claims, or additional product information, please visit the official Corsair support website:

Corsair Support

You can also find FAQs, driver downloads, and community forums on their website.

