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Corsair CMK16GX4M2B3200C16

Corsair Vengeance LPX DDR4 Memory Module User Manual

Model: CMK16GX4M2B3200C16

1. PRODUCT OVERVIEW

The Corsair Vengeance LPX DDR4 memory is engineered for high-performance computing and overclocking. It features a pure aluminum heat spreader for efficient heat dissipation and an eight-layer PCB for enhanced signal quality and stability, providing superior overclocking headroom. Each memory IC is individually screened to ensure optimal performance potential. This DDR4 form factor is optimized for compatibility with the latest Intel and AMD DDR4 motherboards, offering higher frequencies, greater bandwidth, and reduced power consumption compared to DDR3 modules. Vengeance LPX DDR4 modules are rigorously compatibility tested across various motherboards to ensure reliably fast performance. They support Intel XMP 2.0 for straightforward automatic overclocking and are available in multiple colors to complement your system's aesthetic.

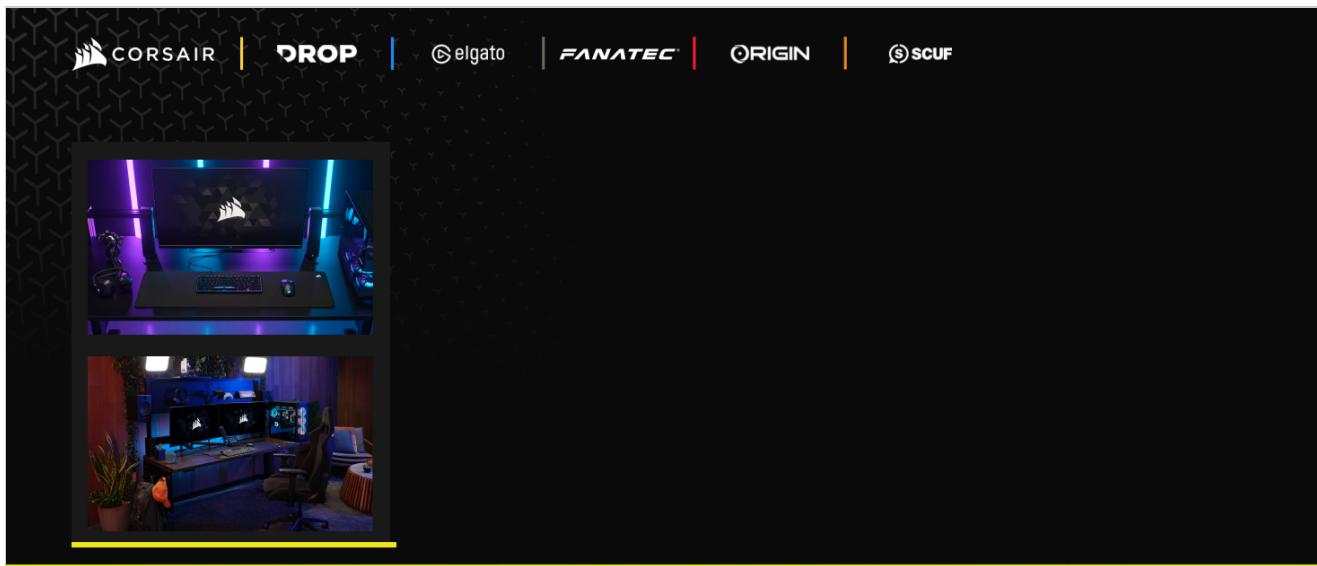


Image: Corsair Vengeance LPX DDR4 Memory Module installed on a motherboard, highlighting its low-profile design and compatibility with Intel platforms.

2. INSTALLATION GUIDE

Before installing your Vengeance LPX DDR4 memory modules, ensure your computer is powered off and unplugged from the wall outlet. Refer to your motherboard's manual for specific instructions on memory slot population, as optimal performance is often achieved by installing modules in specific slots (e.g., A2 and B2 for dual-channel configurations).

- 1. Prepare Motherboard:** Locate the DIMM slots on your motherboard. Gently push open the retention clips at both ends of the DIMM slots where you intend to install the modules.
- 2. Align Memory Module:** Hold the memory module by its edges, avoiding touching the gold contacts. Align the notch on the memory module with the key in the DIMM slot.
- 3. Insert Module:** With firm, even pressure on both ends of the module, push it down into the slot until the retention clips snap into place. Ensure both clips are fully closed and the module is securely seated.
- 4. Repeat for Additional Modules:** If installing multiple modules, repeat the process for each.

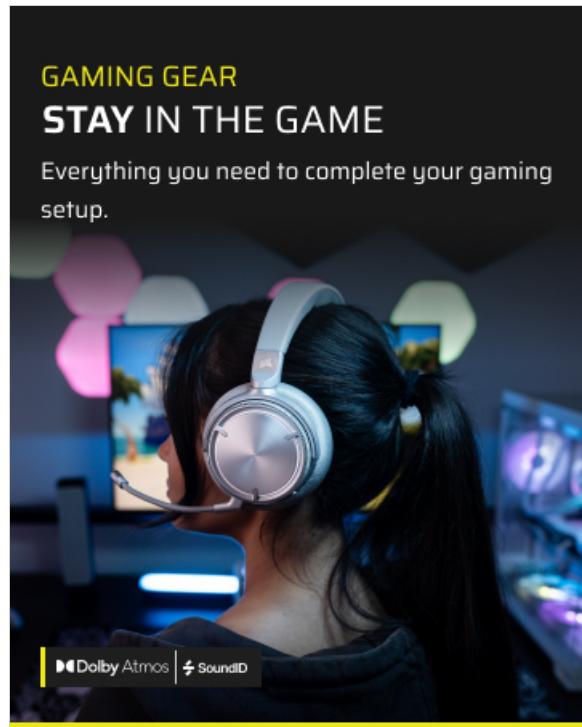


Image: The low-profile design of the Vengeance LPX module, measuring just 34mm in height, ensures compatibility with most small-form-factor builds and large CPU coolers.

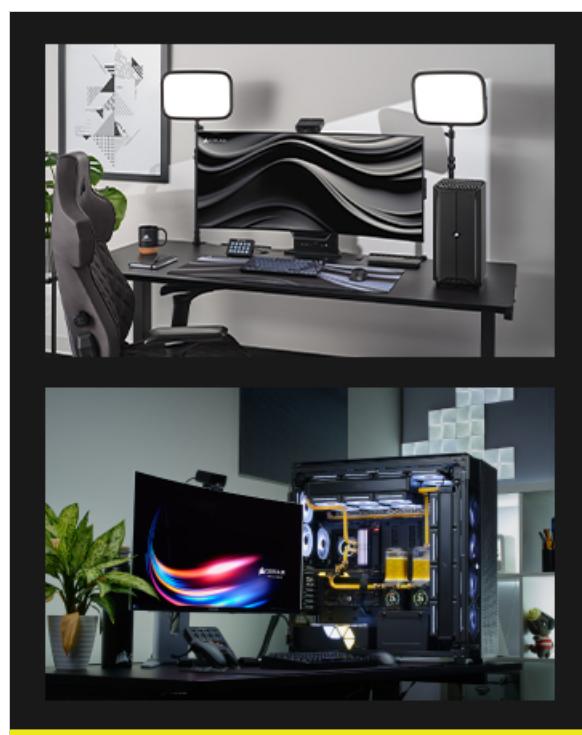


Image: Close-up of the Vengeance LPX module, highlighting its pure aluminum heat spreader designed for efficient heat dissipation.

3. OPERATING INSTRUCTIONS

After successful installation, your system should recognize the new memory. For optimal performance, especially to achieve the advertised speeds (e.g., 3200MHz), you may need to enable Intel XMP 2.0 in your motherboard's BIOS/UEFI settings.

1. **Access BIOS/UEFI:** Restart your computer and repeatedly press the designated key (commonly Del, F2, F10, or F12) during startup to enter the BIOS/UEFI setup.
2. **Enable XMP:** Navigate to the 'Overclocking', 'Advanced Memory Settings', or similar section. Locate the 'XMP Profile' or 'DOCP' (for AMD systems) option and select the appropriate profile (e.g., Profile 1) that matches your memory's advertised speed and timings.
3. **Save and Exit:** Save the changes and exit the BIOS/UEFI. Your system will restart with the optimized memory settings.

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Video: An overview of Corsair Vengeance LPX features, including increased bandwidth, higher bus frequency, lower power usage, pure aluminum heat spreader, low-profile design, and XMP 2.0 support for trouble-free overclocking. This video demonstrates the technical advantages and ease of use of the memory modules.

4. MAINTENANCE

Corsair Vengeance LPX memory modules are designed for durability and require minimal maintenance. To ensure long-term performance and stability:

- **Maintain System Airflow:** Ensure your computer case has adequate airflow to prevent excessive heat buildup, which can affect all components, including RAM.
- **Keep Clean:** Periodically clean the interior of your computer case to remove dust, which can impede airflow and heat dissipation. Use compressed air for this purpose.
- **Avoid Physical Damage:** Handle memory modules with care. Avoid bending or applying excessive force to the modules or their connectors.

5. TROUBLESHOOTING

If you encounter issues after installing your Corsair Vengeance LPX memory, consider the following troubleshooting steps:

- **System Not Booting/No Display:**
 - Ensure memory modules are fully seated in their slots. Re-seat them if necessary.
 - Verify that the modules are installed in the correct slots according to your motherboard's manual for dual-channel operation.
 - Try booting with only one module installed to identify if a specific module is faulty.
- **Incorrect Memory Speed Detected:**
 - Access your system's BIOS/UEFI settings (as described in Section 3).
 - Enable the Intel XMP 2.0 profile to set the memory to its advertised speed and timings.
 - Ensure your motherboard and CPU support the memory speed.
- **System Instability/Crashes:**
 - If XMP is enabled, try disabling it or selecting a lower XMP profile to test stability.
 - Ensure your system's BIOS/UEFI is updated to the latest version, as this can improve memory compatibility.
 - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors.

6. SPECIFICATIONS

Feature	Specification
RAM Capacity	16 GB (2x8GB)
Memory Type	DDR4 SDRAM
Memory Speed	3200 MHz
CAS Latency	CL16-18-18-36
Voltage	1.35 Volts
Form Factor	DIMM
Compatible Devices	Desktop (Intel & AMD DDR4 Motherboards)
Heat Spreader Material	Pure Aluminum
Module Height	34mm
Color	Black
Item Weight	3.53 ounces
Product Dimensions	6.1 x 3.54 x 0.39 inches

7. WARRANTY INFORMATION

Corsair Vengeance LPX DDR4 memory modules come with a limited lifetime warranty, providing complete peace of mind. For detailed terms and conditions, please refer to the official Corsair website or the warranty documentation included with your product.

8. SUPPORT

For further assistance, technical support, or to access additional resources, please visit the official Corsair support website. You can find FAQs, driver downloads, and contact information for customer service.