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> [CORSAIR Vengeance LPX 64GB \(4 x 16GB\) DDR4 DRAM 2400MHz C14 Memory Kit User Manual](#)

Corsair CMK64GX4M4A2400C14

CORSAIR Vengeance LPX 64GB (4 x 16GB) DDR4 DRAM 2400MHz C14 Memory Kit User Manual

Model: CMK64GX4M4A2400C14

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your CORSAIR Vengeance LPX 64GB (4 x 16GB) DDR4 DRAM 2400MHz C14 memory kit. Please read these instructions carefully before proceeding with installation.

Package Contents

- Memory Module (4)

The CORSAIR Vengeance LPX memory is engineered for high-performance systems. It features a pure aluminum heat spreader for efficient heat dissipation and an eight-layer PCB for improved heat management and overclocking stability. Each memory IC is individually tested for performance potential. The DDR4 form factor is optimized for modern Intel X99 and 100 Series motherboards, offering higher frequencies, increased bandwidth, and reduced power consumption compared to DDR3 modules. Vengeance LPX DDR4 modules undergo compatibility testing across various X99 and 100 Series motherboards to ensure reliable performance. They also support XMP 2.0 for automatic overclocking.

2. SETUP AND INSTALLATION

Proper installation of memory modules is crucial for system stability and performance. Always refer to your motherboard's manual for specific instructions regarding memory slot population and configuration.

Before Installation

1. **Safety First:** Always disconnect your computer from the power outlet before opening the case and handling internal components.
2. **Static Discharge:** Ground yourself by touching a metal part of your computer case before handling memory modules to prevent electrostatic discharge (ESD) damage.
3. **Motherboard Manual:** Consult your motherboard's user manual to identify the correct DIMM slots for your memory configuration (e.g., dual-channel, quad-channel) and to understand the recommended installation order.

Installation Steps

1. **Open Case:** Open your computer case to access the motherboard.

2. **Locate DIMM Slots:** Identify the DDR4 DIMM slots on your motherboard. They are typically long slots with clips on either end.
3. **Open Clips:** Gently push open the retention clips on both ends of the DIMM slot(s) where you intend to install the memory.
4. **Align 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. DDR4 modules have a single notch slightly off-center.
5. **Insert Module:** Place the module into the slot and apply firm, even pressure to both ends until the retention clips snap into place. You should hear a click.
6. **Verify Installation:** Ensure both clips are fully closed and the module is seated securely. Repeat for all four modules.
7. **Close Case:** Once all modules are installed, close your computer case and reconnect the power.

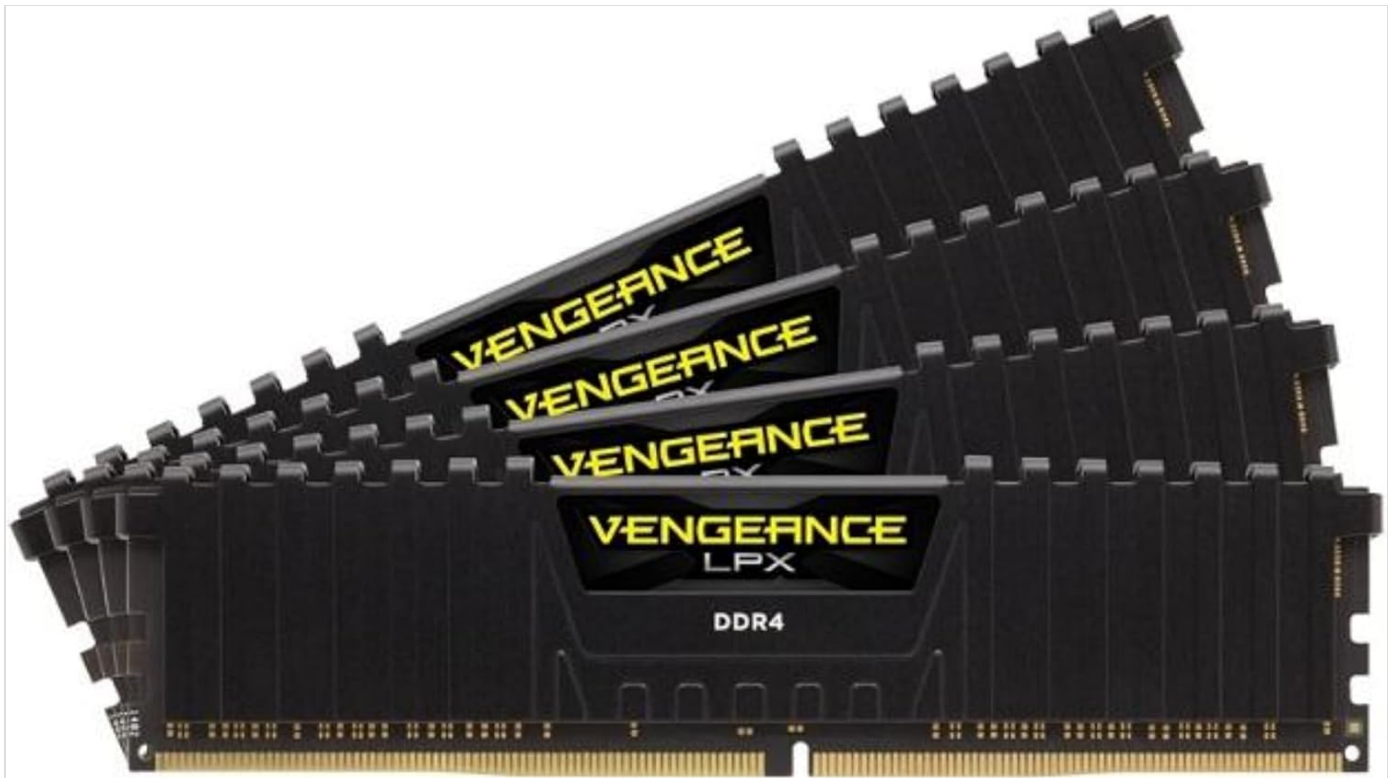


Image: Four CORSAIR Vengeance LPX DDR4 memory modules, showing their black heat spreaders and the "VENGEANCE LPX DDR4" branding.

3. OPERATING INSTRUCTIONS

After physical installation, your system should recognize the new memory. For optimal performance, especially to achieve the advertised 2400MHz speed, you may need to enable XMP (Extreme Memory Profile) in your motherboard's BIOS/UEFI settings.

Enabling XMP 2.0

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. **Locate XMP Setting:** Navigate to the memory or overclocking section. Look for an option labeled "XMP," "DOCP," "A-XMP," or similar.
3. **Enable Profile:** Select the XMP profile (usually "Profile 1") to automatically configure the memory to its rated speed (2400MHz) and timings (C14).
4. **Save and Exit:** Save the changes and exit the BIOS/UEFI. Your system will restart with the optimized memory settings.

If your system does not boot after enabling XMP, revert to default BIOS settings and ensure your motherboard and CPU support the memory speed. Consult your motherboard manual for detailed instructions on BIOS/UEFI navigation.

<p>COMPATIBILITY TESTED</p> <p>Part of our exhaustive testing process includes performance and compatibility testing on nearly every motherboard on the market – and a few that aren't.</p>	<p>XMP 2.0 SUPPORT</p> <p>One setting is all it takes to automatically adjust to the fastest safe speed for your VENGEANCE LPX kit. You'll get amazing, reliable performance without lockups or other strange behavior.</p>	<p>ALUMINUM HEAT SPREADER</p> <p>Overclocking overhead is limited by operating temperature. The unique design of the VENGEANCE LPX heat spreader optimally pulls heat away from the ICs and into your system's cooling path, so you can push it harder.</p>
<p>DESIGNED FOR HIGH-PERFORMANCE OVERCLOCKING</p> <p>Each VENGEANCE LPX module is built from an custom performance PCB and highly-screened memory ICs. The efficient heat spreader provides effective cooling to improve overclocking potential.</p>	<p>LOW-PROFILE DESIGN</p> <p>The small form factor makes it ideal for smaller cases or any system where internal space is at a premium.</p>	<p>MATCH YOUR SYSTEM</p> <p>The best high-performance systems look as good as they run. VENGEANCE LPX is available in several colors to match your motherboard, your other components, your case -- or just your favorite color.</p>

Image: A close-up view of CORSAIR Vengeance LPX memory modules installed in a motherboard, illustrating their low-profile design and the aluminum heat spreaders designed for efficient cooling.

4. MAINTENANCE

CORSAIR Vengeance LPX memory modules are designed for durability and require minimal maintenance. Follow these general guidelines to ensure their longevity:

- **Keep Clean:** Periodically clean the interior of your computer case to prevent dust buildup, which can hinder airflow and heat dissipation. Use compressed air to gently remove dust from around the memory modules and other components.
- **Proper Airflow:** Ensure your computer case has adequate ventilation to maintain optimal operating temperatures for all components, including RAM.
- **Avoid Physical Damage:** Handle memory modules by their edges only. Avoid touching the gold contacts or applying excessive force.
- **Environmental Conditions:** Operate your computer in a stable environment, avoiding extreme temperatures or humidity.

5. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
System does not boot / No display	Memory modules not seated correctly. Incorrect memory configuration.	Ensure all memory modules are fully seated in their slots, with retention clips locked. Refer to your motherboard manual for correct DIMM slot population. Try booting with only one module installed to isolate a faulty stick.

Problem	Possible Cause	Solution
System boots but memory is not recognized at full speed (2400MHz)	XMP profile not enabled or configured.	Access BIOS/UEFI and enable the XMP 2.0 profile as described in Section 3. Ensure your motherboard and CPU support DDR4 2400MHz.
System instability / Blue Screens of Death (BSOD)	Faulty memory module. Overclocking instability.	Run a memory diagnostic tool (e.g., MemTest86) to check for errors. If XMP is enabled, try disabling it or manually setting timings and voltage. Test modules individually to identify a potentially faulty one.

6. SPECIFICATIONS

Feature	Detail
Brand	Corsair
Series	Vengeance LPX
Model Number	CMK64GX4M4A2400C14
Memory Type	DDR4 SDRAM
Capacity	64GB (4 x 16GB)
Speed	2400MHz
CAS Latency	C14 (CL14)
Voltage	1.2 Volts
Color	Black
Heat Spreader	Pure Aluminum
Form Factor	DIMM
Dimensions (LxWxH)	5.31 x 1.31 x 0.27 inches
Compatible Devices	Intel 100 Series, Intel 200 Series, Intel 300 Series, Intel 400 Series, Intel 500 Series, Intel 600 Series, Intel X99, Intel X299, AMD 300 Series, AMD 400 Series, AMD 500 Series, AMD X570, AMD TRX40

7. WARRANTY AND SUPPORT

CORSAIR products are backed by a comprehensive warranty. For specific warranty terms and conditions, please refer to the official CORSAIR website or the documentation included with your purchase.

For further assistance, technical support, or to download the official user guide (PDF), please visit the [Corsair Store on Amazon](#) or the main Corsair support website.

A detailed User Guide (PDF) is available for download: [Download User Guide \(PDF\)](#)

