

Corsair CMK16GX4M2D3600C18

CORSAIR VENGEANCE LPX DDR4 RAM 16GB (2x8GB) 3600MHz Memory Module

MODEL: CMK16GX4M2D3600C18

1. Introduction and Overview

The CORSAIR VENGEANCE LPX DDR4 memory is engineered for high-performance computing and overclocking. It features a pure aluminum heatspreader for efficient heat dissipation and a custom performance PCB for enhanced signal quality and overclocking stability. Each memory IC is individually screened to ensure optimal performance potential. This DDR4 form factor is designed for compatibility with the latest Intel and AMD DDR4 motherboards, offering higher frequencies, increased bandwidth, and reduced power consumption compared to DDR3 modules. VENGEANCE LPX DDR4 modules undergo rigorous compatibility testing across various Intel DDR4 motherboards to ensure reliable and fast performance. They are available in multiple colors to complement your system's aesthetic.

Key Features:

- Hand-sorted memory chips for high performance and overclocking headroom.
- Optimized for wide compatibility with the latest Intel and AMD DDR4 motherboards.
- Low-profile height (34mm) for compatibility with most small-form-factor builds.
- High-performance PCB for strong signal quality and superior overclocking ability.
- Solid aluminum heatspreader for efficient heat dissipation and consistent high clock speeds.
- Supports Intel XMP 2.0 for simplified one-setting installation and setup.

Your browser does not support the video tag.

Video: CORSAIR VENGEANCE LPX DDR4 RAM product overview, highlighting features like optimized performance, increased bandwidth, lower power usage, aluminum heat spreader, and low-profile design.

2. Setup and Installation

Installing your CORSAIR VENGEANCE LPX DDR4 RAM modules requires careful handling and adherence to

safety procedures. Always consult your motherboard's manual for specific instructions regarding RAM slot population and configuration.

Pre-installation Checklist:

- Ensure your computer is completely powered off and unplugged from the wall outlet.
- Discharge any static electricity by touching a grounded metal object (e.g., your PC case).
- Refer to your motherboard manual for the correct DIMM slots to use for dual-channel memory configuration. Typically, these are alternating slots (e.g., slots 2 and 4).

Physical Installation Steps:

1. Locate the DIMM slots on your motherboard.
2. Gently push open the retention clips at both ends of the selected DIMM slots.
3. Align the memory module with the DIMM slot, ensuring the notch on the module matches the key in the slot. Do not force the module.
4. Apply even pressure to both ends of the memory module until it seats firmly into the slot and the retention clips snap into place.
5. Repeat for the second memory module in the appropriate dual-channel slot.



Image: Two CORSAIR VENGEANCE LPX DDR4 RAM modules. These modules are designed for easy installation into

BIOS Configuration (XMP 2.0):

To achieve the advertised 3600MHz speed, you may need to enable Intel XMP (Extreme Memory Profile) 2.0 in your motherboard's BIOS. Without XMP, the memory may default to a lower speed (e.g., 2133MHz).

1. After installing the RAM, power on your computer and enter the BIOS/UEFI setup (usually by pressing DEL or F2 during startup).
2. Navigate to the memory or overclocking settings.
3. Look for an option related to XMP, DOCP (for AMD systems), or memory profiles.
4. Enable XMP 2.0 and select the appropriate profile (e.g., Profile 1 or Profile 2) that corresponds to 3600MHz.
5. Save your BIOS settings and exit. The system should restart with the memory running at the correct speed.

3. Operating Instructions

Once installed and configured in the BIOS, your CORSAIR VENGEANCE LPX DDR4 RAM operates automatically. The memory modules will provide the specified speed and capacity to your system, enhancing overall performance for applications, gaming, and multitasking.

Optimal Performance:

- Ensure your system's cooling is adequate to maintain stable operating temperatures for all components, including RAM.
- For sustained high-frequency operation, consider additional airflow solutions if your system experiences high temperatures.

4. Maintenance

CORSAIR VENGEANCE LPX DDR4 RAM modules are designed for durability and require minimal maintenance. However, general computer maintenance practices will help ensure their longevity and optimal performance.

General Maintenance Tips:

- Keep your computer's interior clean from dust buildup. Dust can impede airflow and lead to higher operating temperatures.
- Use compressed air to gently remove dust from around the memory modules and other components. Ensure the system is powered off and unplugged before cleaning.
- Avoid touching the gold contacts on the memory modules to prevent static discharge or oil transfer, which can affect connectivity.

5. Troubleshooting

If you encounter issues after installing your CORSAIR VENGEANCE LPX DDR4 RAM, consider the following troubleshooting steps:

Common Issues and Solutions:

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

- Ensure memory modules are fully seated in their slots and retention clips are closed.
- Verify that the modules are installed in the correct DIMM slots as per your motherboard manual.
- Try booting with only one module installed, then swap to the other to identify a potentially faulty module.
- Clear your motherboard's CMOS (refer to your motherboard manual for instructions).

- **Memory Running at Lower Speed (e.g., 2133MHz):**

- Enter your motherboard's BIOS/UEFI setup.
- Enable XMP 2.0 (or DOCP for AMD) and select the 3600MHz profile.
- Save and exit the BIOS.

- **System Instability / Crashes:**

- Ensure XMP settings are correctly applied and stable. If instability persists, try a slightly lower XMP profile or manually adjust timings/voltage (advanced users only).
- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic or MemTest86) to check for errors.

6. Specifications

Feature	Detail
RAM Capacity	16 GB (2 x 8GB)
Memory Type	DDR4 SDRAM
Memory Speed	3600 MHz
Voltage	1.35 Volts
CAS Latency	CL18-22-22-42
Form Factor	DIMM
Module Dimensions (LxWxH)	5.32 x 0.28 x 1.32 inches
Weight	3.21 ounces
Color	Black
Compatible Devices	Intel 300 Series, Intel 400 Series, Intel 500 Series, Intel X299, AMD 300 Series, AMD 400 Series, AMD 500 Series, AMD X570

7. Warranty and Support

CORSAIR VENGEANCE LPX DDR4 RAM modules come with a limited lifetime warranty, providing peace of mind regarding product quality and reliability.

Contact Support:

For technical assistance or warranty claims, please contact Corsair customer support:

- **Phone:** 1-888-222-4346 opt # 1
- Visit the official Corsair support website for additional resources and contact options.