

Samsung M323R2GA3DB0-CWM

Samsung 32GB DDR5 5600MHz UDIMM Desktop RAM Memory User Manual

Model: M323R2GA3DB0-CWM

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Samsung 32GB (2x16GB) DDR5 5600MHz UDIMM Desktop RAM Memory. Please read these instructions carefully before proceeding to ensure proper installation and optimal performance. This memory kit is designed for compatible DDR5 Desktop PC systems only.

2. PRODUCT FEATURES

- Genuine Samsung DDR5 Memory RAM.
- 32GB RAM Kit, consisting of two 16GB modules.
- DDR5 DIMM 288-Pin form factor.
- Operating speed up to 5600MHz (PC5-44800).
- NON-ECC Unbuffered (UDIMM) memory type.
- 1Rx8 - Single Rank x8 configuration.
- Standard JEDEC DDR5 voltage of 1.1V.
- Compatible with select DDR5 Desktop PC/Computer systems. **Not compatible with laptop computers.**
- Designed to expand your system's available memory, improving performance and increasing workload capacity.

3. SETUP AND INSTALLATION

Proper installation is crucial for the functionality of your new RAM. Follow these steps carefully:

1. **Preparation:** Before beginning, ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case to access the motherboard.
2. **Locate DIMM Slots:** Identify the DDR5 DIMM slots on your motherboard. Consult your motherboard's user manual for the correct slot configuration and installation order, especially if installing multiple modules.
3. **Handle RAM:** Hold the RAM modules by their edges to avoid touching the gold connectors or the integrated circuits. Static electricity can damage components, so consider using an anti-static wrist strap.
4. **Insert Modules:** Align the notch on the RAM module with the key in the DIMM slot. Gently but firmly press down on both ends of the module until the retaining clips on the sides of the slot snap into place, securing the module.
5. **Secure Case:** Once all modules are installed, close your computer case and reconnect all power cables and peripherals.
6. **Verify Installation:** Power on your computer. Access the BIOS/UEFI settings (usually by pressing DEL, F2, or F10 during startup) or check your operating system's system information to confirm that the new RAM is recognized and the correct capacity is displayed.



This image displays two Samsung DDR5 RAM modules, highlighting their physical appearance and form factor. Each module is a 16GB stick, designed for desktop computer systems.

4. OPERATING INSTRUCTIONS

Once correctly installed and recognized by your system, the Samsung DDR5 RAM operates automatically. It functions as your computer's primary working memory, facilitating faster data access and improved multitasking capabilities. No specific user interaction is required for its operation beyond ensuring your operating system and applications are optimized to utilize the available memory resources.

5. MAINTENANCE

RAM modules generally require minimal maintenance. To ensure longevity and stable performance:

- **Keep Clean:** Maintain a clean, dust-free environment for your computer. Dust accumulation can lead to overheating and affect component performance.
- **Proper Handling:** When handling RAM modules, always hold them by the edges. Avoid touching the gold contacts or the chips directly to prevent damage from static electricity or oils from your skin.
- **Avoid Liquids:** Never use liquids or abrasive cleaning materials on the RAM modules. If cleaning is necessary, use a soft, dry, anti-static cloth.

6. TROUBLESHOOTING

If you encounter issues after installing your new RAM, consider the following troubleshooting steps:

- **System Does Not Boot / No Display:**
 - Ensure that the RAM modules are fully seated in their slots and the retaining clips are locked.
 - Try reseating the modules by removing and reinserting them.
 - If multiple modules are installed, try booting with only one module at a time to identify a potentially faulty stick.
 - Verify that your motherboard is compatible with DDR5 UDIMM memory and the specified speed (5600MHz).
- **Incorrect Memory Capacity Detected:**
 - Check your BIOS/UEFI settings to confirm memory detection and capacity.
 - Ensure all modules are properly installed in the correct slots as per your motherboard manual.
 - Consider updating your motherboard's BIOS/UEFI to the latest version, as this can improve memory compatibility and detection.
- **System Instability / Crashes:**
 - Run memory diagnostic tools (e.g., Windows Memory Diagnostic, MemTest86) to check for potential errors in the RAM modules.
 - Ensure adequate cooling within your computer case to prevent memory overheating.

7. SPECIFICATIONS

Feature	Detail
Brand	Samsung
Memory Type	DDR5

Memory Size	32 GB (2 x 16 GB Modules)
Form Factor	DIMM (288 Pin)
ECC Type	Non-ECC UDIMM (Unbuffered DIMM)
Speed	5600 MHz (PC5-44800)
Rank	1Rx8 - Single Rank x8
Voltage	1.1V
Column Address Strobe Latency (CL)	CL46
Product Dimensions	13.34 x 3.12 x 0.38 cm
Weight	45.36 g
Compatible Devices	Desktop PCs (Not for laptops)

8. WARRANTY AND SUPPORT

Specific warranty terms and conditions for this Samsung memory product should be obtained from your point of purchase or directly from Samsung's official website. Warranty coverage typically includes defects in materials and workmanship.

For technical assistance, product inquiries, or support, please refer to the official Samsung support channels available in your region. These resources can provide detailed guidance and solutions for any issues you may encounter.