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› [parts-quick](#) /

› [parts-quick 2GB PC3200 DDR ECC DIMM RAM Upgrade for MSI 875P Neo Series \(MS-6758\) Instruction Manual](#)

parts-quick 875P Neo/875P Neo-LSR/875P Neo-FIS2R (MS-6758)

parts-quick 2GB PC3200 DDR ECC DIMM RAM Upgrade for MSI 875P Neo Series (MS-6758) - Instruction Manual

[Introduction](#) [Product Overview](#) [Specifications](#) [Compatibility](#) [Installation](#) [Maintenance](#)
[Troubleshooting](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides detailed instructions for the installation and proper use of your parts-quick 2GB (2 x 1GB) PC3200 DDR ECC DIMM RAM upgrade kit. Please read this manual thoroughly before installation to ensure correct procedure and optimal performance. This memory kit is designed to enhance the performance of compatible MSI motherboards.

2. PRODUCT OVERVIEW

The parts-quick 2GB Memory Kit consists of two 1GB PC3200 DDR ECC DIMM modules. This memory is specifically designed for server and workstation environments requiring Error-Correcting Code (ECC) memory to detect and correct data corruption, ensuring system stability and data integrity. It operates at a speed of 400MHz and has a 184-pin form factor.



Figure 1: Two parts-quick 1GB PC3200 DDR ECC DIMM RAM modules. These modules are designed for server-grade systems and feature the standard 184-pin connector.

3. SPECIFICATIONS

Feature	Detail
Capacity	2GB Kit (2 x 1GB modules)
Memory Type	DDR SDRAM
Speed	PC3200 (400MHz)
Form Factor	184-pin DIMM
Error Correction	ECC (Error-Correcting Code)
Buffering	Unbuffered
Voltage	2.6V
CAS Latency	CL3
Compatibility	MSI 875P Neo/875P Neo-LSR/875P Neo-FIS2R (MS-6758)

4. COMPATIBILITY

This parts-quick 2GB (2 x 1GB) PC3200 DDR ECC DIMM RAM kit is specifically designed and tested for compatibility with the following MSI motherboard models:

- MSI 875P Neo (MS-6758)
- MSI 875P Neo-LSR (MS-6758)
- MSI 875P Neo-FIS2R (MS-6758)

Ensure your system requires ECC memory. This memory is intended for server and workstation applications that utilize ECC functionality. Using ECC memory in systems not designed for it may result in incompatibility or reduced performance.

5. INSTALLATION INSTRUCTIONS

Before beginning the installation process, please read all instructions carefully. Improper installation can damage the memory modules or your motherboard. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

5.1 Safety Precautions

- Always power off your computer and unplug it from the wall outlet before opening the case.
- Discharge any static electricity by touching a grounded metal object, such as the computer's metal chassis.
- Handle memory modules by their edges, avoiding contact with the gold connectors.
- Do not force the memory modules into the slots.

5.2 Step-by-Step Installation

1. **Prepare Your System:** Power down your computer completely and unplug the power cord from the wall outlet.
2. **Open the Computer Case:** Remove the side panel of your computer case to access the motherboard. Refer to your computer's or motherboard's manual for specific instructions on opening the case.
3. **Locate DIMM Slots:** Identify the DDR DIMM slots on your MSI motherboard. These are typically long slots with clips on each end. Consult your motherboard manual for the correct slot configuration for dual-channel memory.
4. **Open Retention Clips:** Gently push the white or black retention clips at both ends of the DIMM slot outwards to open them.
5. **Insert Memory Module:** Align the notch on the bottom edge of the memory module with the key in the DIMM slot. Ensure the module is oriented correctly.
6. **Seat the Module:** Place the module into the slot and apply firm, even pressure to both ends of the module simultaneously until the retention clips snap into place, securing the module. You should hear a click.
7. **Verify Installation:** Visually inspect the module to ensure it is fully seated and the clips are locked. The gold contacts should not be visible.
8. **Repeat for Second Module:** If installing both 1GB modules, repeat steps 4-7 for the second module, ensuring it is placed in the correct corresponding slot for dual-channel operation (refer to your motherboard manual).
9. **Close Case and Power On:** Once both modules are securely installed, close your computer case, plug in the power cord, and power on your computer.
10. **Verify in BIOS/OS:** Upon booting, enter your system's BIOS/UEFI settings to confirm that the new memory capacity is recognized. Alternatively, check the system information within your operating system.

6. MAINTENANCE

Memory modules generally require minimal maintenance. However, following these guidelines can help ensure their longevity and optimal performance:

- **Keep System Clean:** Regularly clean the interior of your computer case to prevent dust buildup, which can lead to overheating and component failure. Use compressed air to gently remove dust from around memory modules and slots.

- **Ensure Proper Airflow:** Make sure your computer case has adequate ventilation to maintain optimal operating temperatures for all components, including RAM.
- **Avoid Physical Stress:** Do not bend or apply excessive force to the memory modules. Handle them carefully by the edges.
- **Static Prevention:** Always take anti-static precautions when handling internal computer components.

7. TROUBLESHOOTING

If you encounter issues after installing the memory, consider the following troubleshooting steps:

- **No Display/System Not Booting:**
 - Ensure the memory modules are fully seated in their slots. Re-seat them by pressing down firmly until the clips lock.
 - Verify that the modules are installed in the correct DIMM slots as per your motherboard's manual for proper configuration (e.g., dual-channel).
 - Try installing only one module at a time to identify if one of the modules is faulty.
 - Clear the CMOS (Complementary Metal-Oxide-Semiconductor) settings on your motherboard. Refer to your motherboard manual for instructions.
- **Incorrect Memory Capacity Detected:**
 - Check your system's BIOS/UEFI settings to confirm the detected memory.
 - Ensure your operating system is a 64-bit version to fully utilize more than 4GB of RAM (though this kit is 2GB, it's a general best practice).
 - Verify that your motherboard BIOS is updated to the latest version, as this can improve memory compatibility.
- **System Instability/Crashes:**
 - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
 - Ensure your system's power supply unit (PSU) is sufficient for all installed components.
 - Check for overheating issues within your computer.

If problems persist after attempting these steps, contact parts-quick technical support for further assistance.

8. WARRANTY & SUPPORT

Lifetime Warranty: This parts-quick memory kit is backed by a Lifetime Warranty. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the official parts-quick warranty policy available on their website or contact customer service.

Technical Support: For technical assistance, installation questions, or troubleshooting, parts-quick offers Toll-Free Technical Support. Please have your product model information ready when contacting support.

Contact information for support can typically be found on the parts-quick official website or on the product packaging.