

A-Tech MS668KMM5046

A-Tech 2GB KIT (2 x 1GB) DDR2 RAM Memory Instruction Manual

Model: MS668KMM5046



1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your A-Tech 2GB (2 x 1GB) DIMM DDR2 PC2-6400 800MHz RAM Memory Kit. This memory kit is designed to enhance the performance of compatible MSI Motherboards by providing additional system memory.



Image: Two A-Tech 1GB DDR2 RAM modules, individually packaged, ready for installation. Each module features a green PCB with memory chips and an A-Tech label.

2. PRODUCT SPECIFICATIONS

Feature	Description
Memory Type	DIMM DDR2 Non-ECC
Capacity	2GB Kit (2 x 1GB modules)
Speed	PC2-6400 (800MHz)
Form Factor	DIMM (for Desktop PCs)
Product Dimensions	6.7 x 3.6 x 0.4 inches
Item Weight	2.4 ounces
Model Number	MS668KMM5046



Image: An illustration comparing the physical sizes of DIMM (larger, for desktops) and SODIMM (smaller, for laptops) memory modules. This product uses the DIMM form factor.

3. COMPATIBILITY

This A-Tech memory kit is specifically designed for use with the following MSI Motherboard models:

- MSI Motherboard K9N6PGM2-V
- MSI Motherboard K9N6PGM2-V2
- MSI Motherboard K9N6PGM-F
- MSI Motherboard K9N6PGM-FI
- MSI Motherboard K9N6SGM-V
- MSI Motherboard K9NBPGM2-FID
- MSI Motherboard K9NBPM2-FID
- MSI Motherboard K9NG Neo-V
- MSI Motherboard K9NGM

Before installation, always consult your motherboard's official manual to confirm memory compatibility and supported configurations.

4. SETUP AND INSTALLATION

Installing RAM requires careful handling to prevent damage to the modules or your computer components. It is recommended to wear an anti-static wrist strap during installation.

4.1 Safety Precautions

- **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet before opening the case.
- **Ground Yourself:** Discharge any static electricity by touching a grounded metal object (e.g., the unpainted metal part of your computer case) before handling components. Consider using an anti-static wrist strap.
- **Handle with Care:** Hold the RAM modules by their edges, avoiding contact with the gold connectors or the chips.

4.2 Installation Steps

1. **Open Computer Case:** Remove the side panel of your computer case to access the motherboard.
2. **Locate RAM Slots:** Identify the DIMM slots on your motherboard. These are typically long slots with clips on either end.
3. **Open Clips:** Gently push down the clips at both ends of the RAM slot to open them.
4. **Align Module:** Align the notch on the RAM module with the key in the DIMM slot. The module will only fit one way.
5. **Insert Module:** Place the module into the slot and apply even pressure to both ends until the clips snap into place, securing the module. You may hear a click.
6. **Verify Seating:** Ensure the module is fully seated and the clips are locked. If not, gently remove and re-insert.
7. **Close Case:** Once all modules are installed, replace the computer case side panel.
8. **Power On:** Plug in your computer and power it on. The system should automatically detect the new memory.

If your system does not boot or recognize the new memory, refer to the Troubleshooting section.

5. OPERATING PRINCIPLES

Random Access Memory (RAM) serves as your computer's short-term data storage. When you open applications, browse the web, or work on documents, your computer temporarily stores data in RAM for quick access. A sufficient amount of RAM allows your system to handle multiple tasks and applications simultaneously without significant slowdowns.



Image: This graphic depicts how an A-Tech memory upgrade can boost performance, showing a RAM module, a desktop computer, and a high-performance car on a monitor, symbolizing speed and efficiency.



Image: A woman working efficiently on a multi-monitor setup, representing the ability to multitask with ease due to expanded memory capacity.



Image: Three distinct icons: a speedometer indicating "Accelerate Speeds to 800MHz", stacked documents for "Take on Greater Workloads", and a shield for "Designed for High Quality Performance".

6. MAINTENANCE

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

- **Keep Clean:** Periodically clean the interior of your computer case to prevent dust buildup, which can impede airflow and lead to overheating of components, including RAM. Use compressed air for this purpose.
- **Proper Handling:** Always handle RAM modules by their edges to avoid transferring oils or dirt from your skin to the gold contacts.
- **Environmental Control:** Operate your computer in a well-ventilated area with stable temperature and humidity to prevent component stress.

7. TROUBLESHOOTING

If you encounter issues after installing your A-Tech RAM, consider the following troubleshooting steps:

7.1 System Does Not Boot or Beeps

- **Re-seat Modules:** Power off and unplug the computer. Open the case and carefully remove and re-insert each RAM module, ensuring they are fully seated and the clips are locked.
- **Check Compatibility:** Double-check that the RAM modules are compatible with your motherboard model and that you are using the correct type (DDR2) and speed (800MHz).
- **Test One Module:** If you installed multiple modules, try booting with only one module at a time in different slots to identify a potentially faulty module or slot.
- **Clear CMOS:** Refer to your motherboard manual for instructions on how to clear the CMOS (BIOS settings). This can sometimes resolve memory recognition issues.

7.2 Incorrect Memory Recognition

- **Check BIOS/UEFI:** Enter your computer's BIOS/UEFI settings (usually by pressing DEL, F2, F10, or F12 during startup) to verify if the correct amount of RAM is detected.
- **Operating System Limits:** Ensure your operating system (especially 32-bit versions) supports the total

amount of RAM installed. 32-bit operating systems typically only recognize up to 4GB of RAM.

- **Motherboard Manual:** Consult your motherboard manual for specific instructions on memory configuration and dual-channel setup.

7.3 System Instability or Crashes

- **Run Memory Diagnostic:** Use built-in Windows Memory Diagnostic Tool or third-party tools like MemTest86 to check for memory errors.
- **Check Overclocking:** If you have overclocked your CPU or RAM, revert to default settings to rule out instability caused by overclocking.



Image: A close-up of an A-Tech RAM module, emphasizing the brand's commitment to "Ensured Reliability" through quality control testing.

8. WARRANTY AND SUPPORT

A-Tech memory products come with a **Lifetime Warranty**, ensuring dependable performance. For warranty claims or technical support, please contact A-Tech directly.

You can find more information and support resources on the official A-Tech website:

[Visit A-Tech Official Website](#)

For product-specific inquiries related to the part number [AT48GD4.Z](#), please use the search function on the A-Tech website or contact their support team.

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