A-Tech MS669KMM0590

A-Tech 16GB (4x4GB) DDR2 PC2-5300 667MHz DIMM RAM Memory Module Installation Guide

For Compatible MSI Motherboards (Model: MS669KMM0590)

Introduction Safety Information Compatibility Package Contents Setup & Installation Operating Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your A-Tech 16GB (4x4GB) DDR2 PC2-5300 667MHz DIMM RAM Memory Kit. Please read this manual thoroughly before proceeding with installation to ensure optimal performance and system stability. This memory kit is designed for specific MSI Motherboard models.

2. Safety Information

Always observe the following safety precautions when handling computer components:

- **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet before opening the case or installing any components.
- **Static Discharge:** Static electricity can damage electronic components. Ground yourself by touching a metal part of the computer chassis before handling the memory modules. Consider using an anti-static wrist strap.
- **Handle with Care:** Hold memory modules by their edges, avoiding contact with the gold connectors or the chips on the module.
- **Proper Tools:** Use appropriate tools, such as a Phillips head screwdriver, if needed to open your computer case.

3. Compatibility

This A-Tech 16GB (4x4GB) DDR2 PC2-5300 667MHz DIMM RAM Memory Kit is specifically designed for use with the following MSI Motherboard models:

- MSI Motherboard MS-7519
- MSI Motherboard P43 Neo-F
- MSI Motherboard G45M Digital
- MSI Motherboard MS-7521

- MSI Motherboard MS-7530
- MSI Motherboard P7NGM-Digital
- MSI Motherboard MS-7532
- MSI Motherboard P45-8D

It is crucial to verify your motherboard's specific memory requirements (DDR2 DIMM, Non-ECC, 667MHz) by consulting your motherboard's official manual before installation. This kit is **DIMM** memory, which is typically used in desktop computers. It is not compatible with SODIMM slots found in laptops or mini PCs.

Image: Illustration showing the size difference between a larger DIMM module (left) and a smaller SODIMM module (right). This product uses DIMM modules.

4. Package Contents

Your A-Tech 16GB DDR2 RAM Memory Kit package should contain the following items:

- Four (4) A-Tech 4GB DDR2 PC2-5300 667MHz DIMM RAM Modules

Image: The A-Tech 16GB kit, consisting of four 4GB DDR2 RAM modules, each sealed in its protective blister packaging.

5. Setup: Installation Instructions

5.1. Preparation

1. **Power Down:** Completely shut down your computer and unplug the power cord from the wall outlet.
2. **Open Case:** Open your computer's side panel to access the motherboard.
3. **Static Protection:** Ground yourself by touching an unpainted metal part of the computer chassis to discharge any static electricity.
4. **Locate RAM Slots:** Identify the DDR2 DIMM slots on your motherboard. Refer to your motherboard manual for their exact location and recommended configuration for multiple modules.

5.2. Module Installation

5. **Open Clips:** Gently push the white retention clips at both ends of the DIMM slot outwards to open them.
6. **Align Module:** Carefully align the notch on the bottom edge of the RAM module with the corresponding key in the DIMM slot. Ensure the module is oriented correctly.

7. **Insert Module:** Place the module into the slot and apply even pressure to both ends of the module until it clicks into place. The retention clips should automatically snap inwards to secure the module. If they do not, gently push them in manually.
8. **Repeat:** Repeat steps 5-7 for all four (4) memory modules, following your motherboard's recommended slot configuration for multi-channel memory.

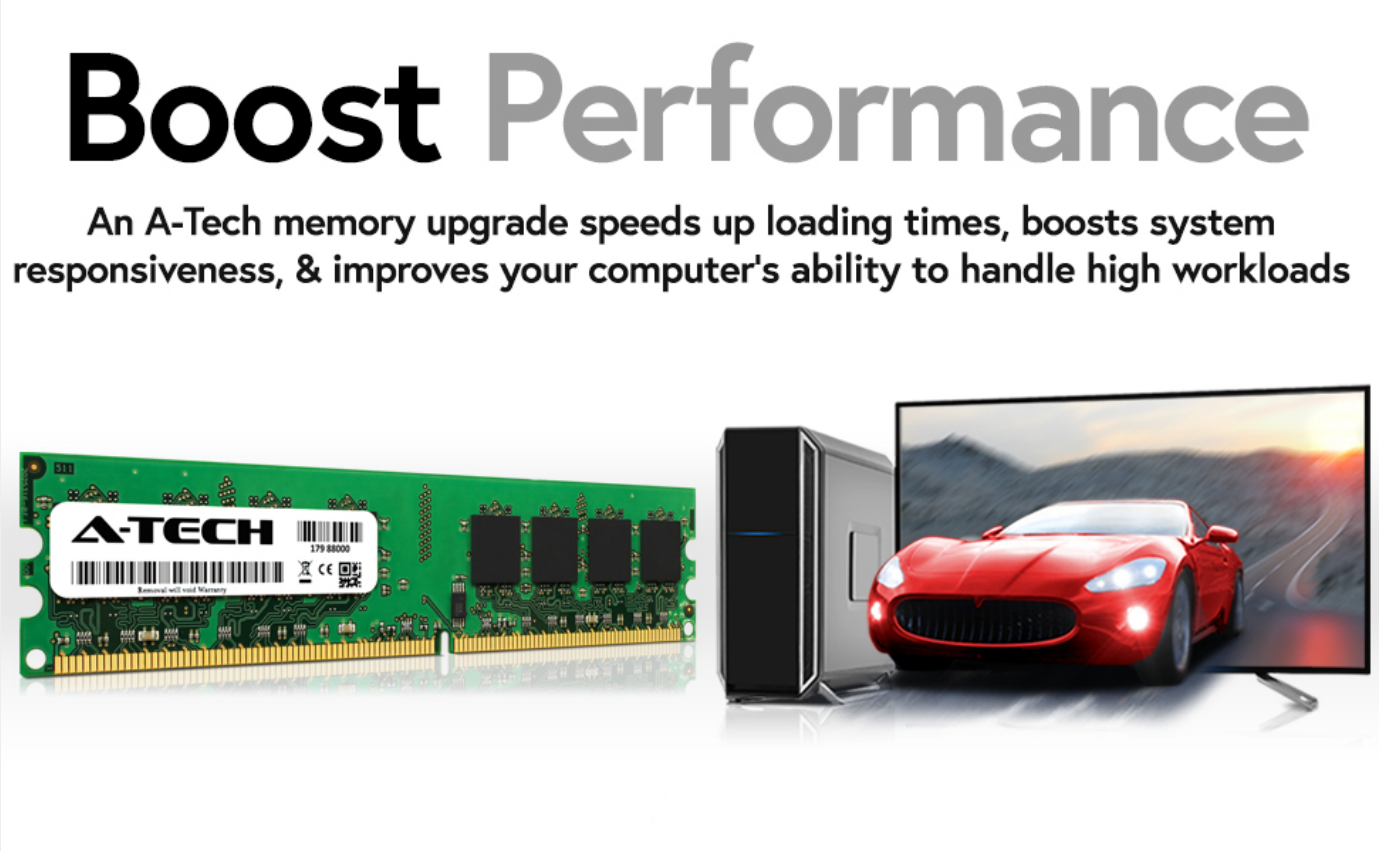

Image: A single A-Tech DDR2 RAM module, showing the gold contacts and the notch for proper alignment during installation.

5.3. Post-Installation

9. **Close Case:** Once all modules are securely installed, close your computer's side panel.
10. **Power On:** Reconnect the power cord and turn on your computer.

6. Operating: Post-Installation Verification

After installing the memory modules, verify that your system recognizes the new RAM:

- **BIOS/UEFI:** During startup, enter your computer's BIOS or UEFI settings (usually by pressing DEL, F2, or F10). Navigate to the system information or memory section to confirm the total installed RAM.
- **Operating System:** Once your operating system loads, check the system properties. For Windows, right-click "This PC" or "My Computer" and select "Properties" to see the installed RAM. For macOS, go to "About This Mac". For Linux, use commands like `free -h` or `cat /proc/meminfo`.

The system should report approximately 16GB of installed memory.

7. Maintenance

A-Tech memory modules are designed for long-term reliability and generally require minimal maintenance. To ensure continued optimal performance:

- **Keep Clean:** Periodically clean the interior of your computer case to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air for this purpose.

- **Avoid Physical Stress:** Do not bend or apply excessive force to the memory modules.
- **Environmental Conditions:** Operate your computer in a well-ventilated area with stable temperature and humidity.

8. Troubleshooting

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

- **System Does Not Boot:**
  - Ensure all memory modules are fully seated in their slots and the retention clips are closed.
  - Verify compatibility with your motherboard.
  - Try installing one module at a time to identify a potentially faulty module or slot.
- **Incorrect RAM Amount Detected:**
  - Check module seating.
  - Consult your motherboard manual for specific slot population rules for dual-channel or quad-channel memory configurations.
  - Ensure your operating system is 64-bit to fully utilize 16GB of RAM.
- **System Instability/Crashes:**
  - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
  - Ensure your motherboard BIOS is updated to the latest version, as this can improve memory compatibility.

9. Specifications

Brand	A-Tech
Model Number	MS669KMM0590
Memory Capacity	16GB (4 x 4GB Modules)
Memory Type	DDR2 DIMM
Error Correction	Non-ECC Unbuffered
Speed	PC2-5300 (667MHz)
Form Factor	240-pin DIMM
Voltage	1.8V (Standard for DDR2)
Compatible Devices	MSI Motherboards (MS-7519, P43 Neo-F, G45M Digital, MS-7521, MS-7530, P7NGM-Digital, MS-7532, P45-8D)

10. Warranty and Support

A-Tech memory modules come with a **Lifetime Warranty**, ensuring peace of mind regarding the quality and durability of your purchase. This warranty covers defects in materials and workmanship for the lifetime of the product.
For technical support, warranty claims, or further assistance, please visit the official A-Tech website or contact their customer service department:

- **Official Website:** atechmemory.com
- Refer to the website for contact information and support resources.

A-Tech is committed to providing high-quality, dependable performance and customer satisfaction.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question