

[Manuals.plus](#) /

> [A-Tech](#) /

> A-Tech 8GB KIT (2 x 4GB) DDR3 1600MHz RAM Memory Installation and User Manual for Asus M5 Motherboard Series

A-Tech AM021451

A-Tech 8GB KIT (2 x 4GB) DDR3 1600MHz RAM Memory User Manual

Model: AM021451

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your A-Tech 8GB KIT (2 x 4GB) DDR3 1600MHz RAM Memory. This memory kit is designed to enhance the performance of compatible desktop computer systems by providing additional memory capacity and speed.

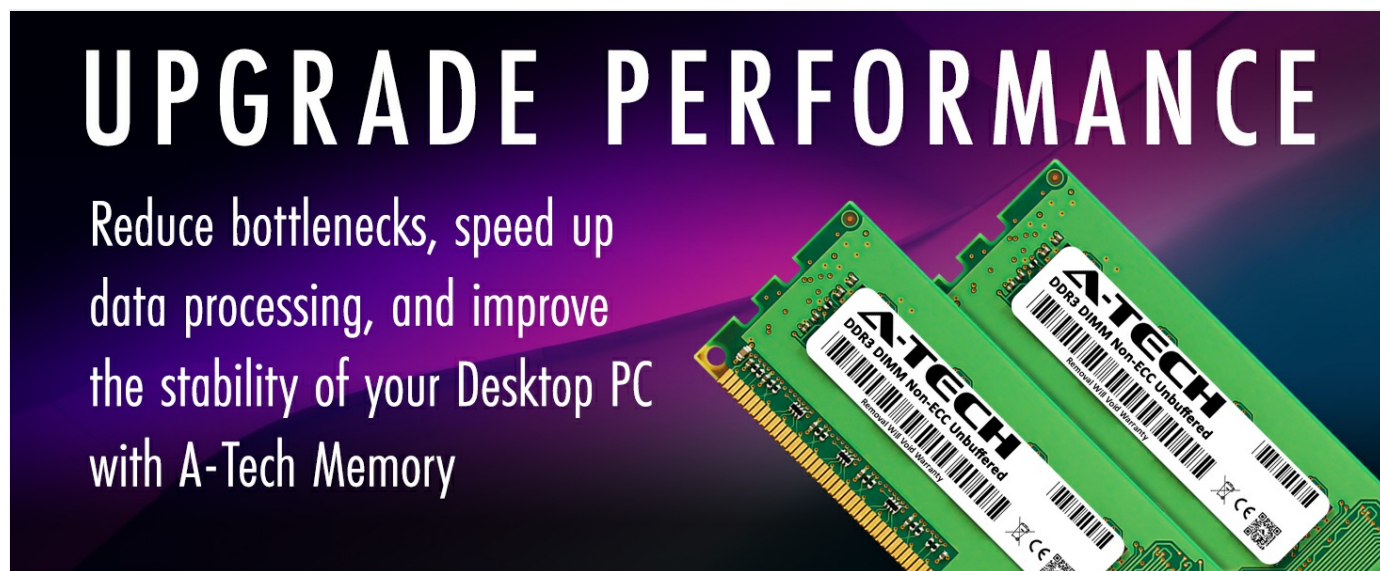


Image: A-Tech DDR3 DIMM modules illustrating performance upgrade.

The A-Tech 8GB KIT consists of two 4GB DDR3 Non-ECC PC3-12800 1600MHz DIMM modules. Upgrading your system's RAM can improve multitasking capabilities and overall system responsiveness.

COMPATIBILITY

This A-Tech memory kit is specifically designed for use with the **Asus M5 Motherboard Series**. It is crucial to verify your motherboard's compatibility before installation to ensure proper function.



Image: Desktop computers, indicating compatibility with desktop systems.

Compatible Motherboard Models:

- M5A78L
- M5A78L LE
- M5A78L/USB3
- M5A78L-M LE
- M5A78L-M LX
- M5A78L-M LX Plus
- M5A78L-M LX V2 (Non-ECC)
- M5A78L-M LX3 (Non-ECC)
- M5A78L-M/USB3
- M5A87 (Non-ECC)
- M5A88-M (Non-ECC)
- M5A88-M Evo (Non-ECC)
- M5A88-V Evo (Non-ECC)

WARNING: This product is designed for the listed Asus M5 Motherboard Series. Product may not work if used with other systems. Please verify the capabilities of your system if it is not listed above.

SETUP AND INSTALLATION

Installing RAM requires careful handling. Follow these steps to install your A-Tech memory modules:

1. **Safety First:** Before beginning, power off your computer completely and unplug it from the wall outlet. Press and hold the power button for a few seconds to discharge any residual electricity. It is recommended to wear an anti-static wrist strap or periodically touch a grounded metal object (like the unpainted metal of your computer case) to prevent electrostatic discharge (ESD), which can damage components.
2. **Open the Case:** Remove the side panel of your computer case to access the motherboard. Refer to your computer's or case's manual for specific instructions on how to open it.
3. **Locate RAM Slots:** Identify the DIMM slots on your motherboard. These are typically long slots near the CPU. Consult your motherboard manual for the correct slot configuration for dual-channel memory (usually matching colored slots or specific numbering).
4. **Prepare Slots:** Gently push down the small clips on both ends of the DIMM slot to open them.
5. **Insert Memory Modules:** Align the notch on the bottom edge of the RAM module with the key in the DIMM slot. Apply even

pressure to both ends of the module until it clicks into place and the clips on the sides automatically lock. Do not force the module; if it doesn't fit, recheck the alignment and notch.

6. **Verify Installation:** Ensure both clips are fully engaged and the module is seated firmly and evenly in the slot.
7. **Close the Case:** Replace the side panel of your computer case and reconnect all cables.
8. **Power On:** Turn on your computer. The system should automatically detect the new memory. You may need to enter the BIOS/UEFI setup to confirm the memory is recognized and running at the correct speed (1600MHz).



Image: A-Tech DDR3 DIMM memory module.

OPERATING

Once installed correctly, the A-Tech DDR3 RAM modules operate automatically with your computer's motherboard and operating system. No specific user interaction is required for their basic function. The memory provides temporary storage for data that the CPU actively uses, enabling faster access and improved system responsiveness.

MAINTENANCE

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

- **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 to gently clear dust from around the RAM modules and slots.
- **Avoid Static:** Always handle memory modules by their edges and avoid touching the gold connectors or integrated circuits to prevent damage from static electricity.
- **Environmental Conditions:** Operate your computer in a well-ventilated area with stable temperature and humidity to protect all internal components, including RAM.

TROUBLESHOOTING

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

- **System Not Booting/No Display:**
 - Ensure the RAM modules are fully seated in their slots and the clips are locked.
 - Try reseating the modules.
 - If you installed multiple modules, try booting with only one module at a time to identify a potentially faulty module.
 - Verify that the modules are installed in the correct slots according to your motherboard manual for dual-channel operation.

• **Incorrect RAM Amount Detected:**

- Check your system's BIOS/UEFI settings to confirm the detected RAM amount.
- Ensure all modules are properly seated.
- Update your motherboard's BIOS/UEFI to the latest version, as this can improve memory compatibility.

• **System Instability/Blue Screens (BSOD):**

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic or MemTest86) to check for errors.
- Ensure your motherboard's BIOS/UEFI settings for memory speed and timings are set to 'Auto' or the correct specifications (1600MHz).

• **Compatibility Issues:**

- Double-check that your motherboard model is listed in the compatibility section of this manual.
- Confirm that your motherboard supports DDR3 Non-ECC DIMM memory.

If issues persist, contact A-Tech support for further assistance.

SPECIFICATIONS

Key technical specifications for the A-Tech 8GB KIT (2 x 4GB) DDR3 1600MHz RAM Memory:

Feature	Specification
Memory Size	8GB (2 x 4GB modules)
Memory Technology	DDR3 SDRAM
Memory Speed	1600MHz (PC3-12800)
Error Correction	Non-ECC
Form Factor	DIMM (Desktop Memory)
Voltage	1.5V (Standard for DDR3)
Item Model Number	AM021451
Product Dimensions	6.7 x 3.6 x 0.4 inches
Item Weight	1.8 ounces

WARRANTY AND SUPPORT

A-Tech memory products are backed by a **Lifetime Warranty**, ensuring dependable performance and peace of mind. This warranty covers defects in materials and workmanship for the lifetime of the product.



Image: Quality control testing of A-Tech memory modules.

For technical support, warranty claims, or any questions regarding your A-Tech memory, please visit the official A-Tech website or contact A-Tech Components directly. You can find more information and contact details at atechmemory.com.

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.

Name

Email

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Details

Submit question

Open the live page

<https://manuals.plus/asin/B00VNKHP68>

More documents and user manuals: <https://manuals.plus/>