

A-Tech ASM452

A-Tech 2GB DDR3 1600MHz PC3-12800 DIMM Memory Module

Model: ASM452 | Brand: A-Tech

1. INTRODUCTION

This instruction manual provides essential information for the installation, operation, and maintenance of your A-Tech 2GB DDR3 1600MHz PC3-12800 DIMM memory module. This module is designed to enhance the performance of compatible desktop computer systems by increasing their Random Access Memory (RAM) capacity, allowing for smoother multitasking and improved system responsiveness.

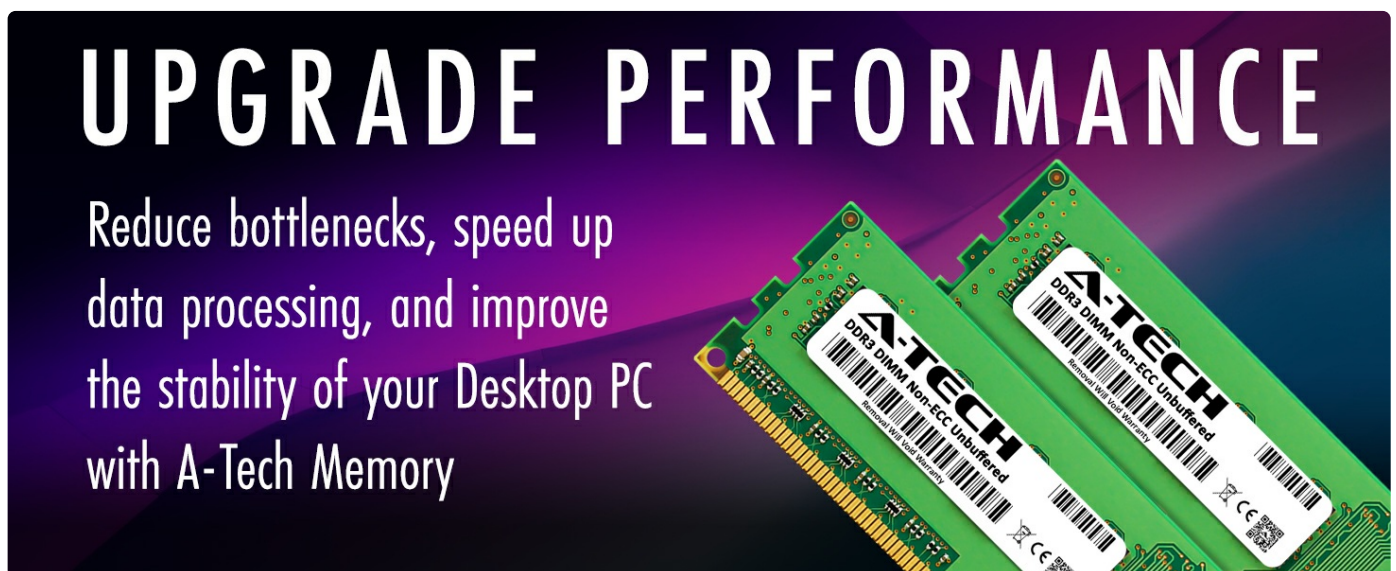


Image: A-Tech memory modules enhancing a desktop PC's performance.

2. COMPATIBILITY

The A-Tech 2GB DDR3 1600MHz PC3-12800 DIMM is specifically designed for use with desktop computers. It is **not compatible** with laptop systems. Please verify your system's motherboard model against the list below to ensure

compatibility.

Compatible FOXCONN Motherboard Models:

- B85MX-D
- B85MX-S
- H61AP-S
- H61MD
- H61MX
- H61MXL-K
- H67S
- H81MP
- H81MX
- H81MX-D
- H81MXP-D

Always refer to your computer system's or motherboard's manual for specific memory requirements and slot configurations.



Image: Desktop computers, highlighting the memory module's compatibility with desktop systems.

3. SPECIFICATIONS

Detailed technical specifications for the A-Tech 2GB DDR3 1600MHz PC3-12800 DIMM memory module:

Feature	Specification
Capacity	2 GB
Memory Type	DDR3 DIMM
Speed	1600 MHz (PC3-12800)
Pin Count	240-Pin
Error Correction	Non-ECC Unbuffered

Feature	Specification
Voltage	1.5V
Dimensions (LxWxH)	5.25 x 1.18 x 0.15 inches (133.35 x 30 x 3.81 mm)
Model Number	ASM452

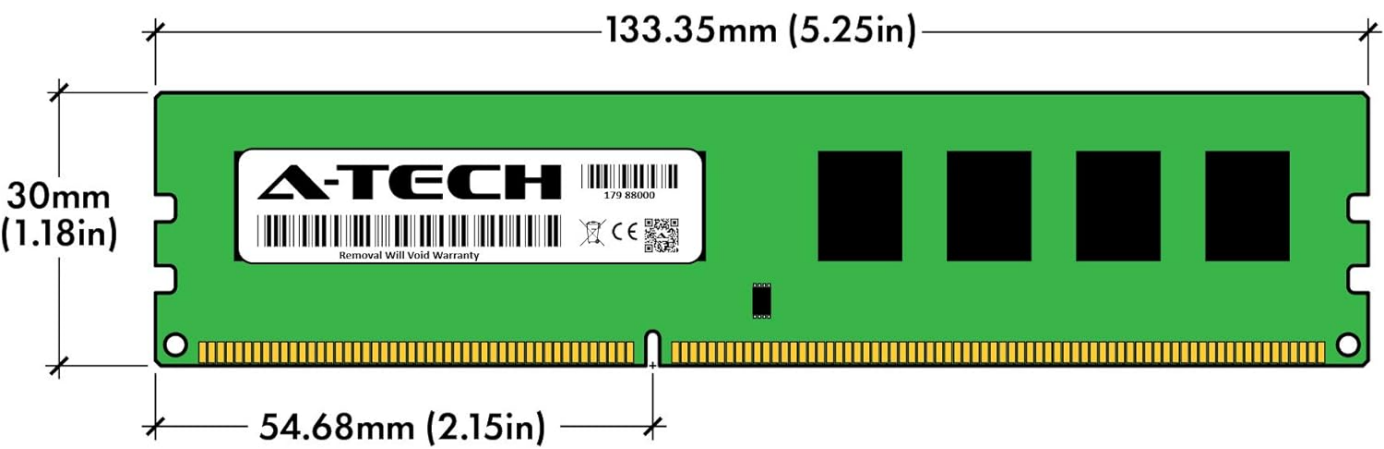


Image: A-Tech 2GB DDR3 DIMM memory module with physical dimensions indicated.

4. SETUP AND INSTALLATION

Installing RAM is a straightforward process, but requires careful handling to prevent damage to the module or your computer. Always follow these steps:

Safety Precautions:

- **Power Off:** Completely shut down your computer and unplug it from the power outlet.
- **Ground Yourself:** Discharge any static electricity by touching a grounded metal object (e.g., the unpainted metal chassis of your computer) before handling components. Consider using an anti-static wrist strap.
- **Handle Carefully:** Hold the memory module by its edges, avoiding contact with the gold connectors or the chips.

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. They are typically long, narrow slots with clips on either end.
3. **Open Retention Clips:** Gently push the white or black clips at both ends of the DIMM slot outwards to open them.
4. **Align Module:** Hold the A-Tech memory module with the gold connectors facing down. Align the notch on the module with the corresponding key in the DIMM slot. This ensures correct orientation.
5. **Insert Module:** Place the module into the slot and apply firm, even pressure to both ends simultaneously until the clips snap into place, securing the module. You should hear a click.
6. **Verify Seating:** Ensure the module is fully seated and the clips are locked. There should be no gold contacts visible between the module and the slot.
7. **Close Case and Power On:** Replace the computer case side panel, plug in the power cord, and power on your computer.

Your system should automatically detect the new memory. You can verify the installed RAM amount in your operating system's system information or BIOS/UEFI settings.



Image: A-Tech 2GB DDR3 DIMM memory module, ready for installation.

5. OPERATING

Once installed, the A-Tech 2GB DDR3 1600MHz DIMM operates automatically as part of your computer's memory subsystem. No direct user interaction is required for its operation. The operating system and applications will utilize the available RAM as needed to store data and program instructions, facilitating faster access than storage drives.

The module functions at its rated speed of 1600MHz (PC3-12800) and voltage of 1.5V, provided your motherboard and CPU support these specifications. The system's BIOS/UEFI will configure the memory settings automatically, or you may adjust them manually if advanced configuration is desired (consult your motherboard manual for details).

6. MAINTENANCE

The A-Tech memory module is a solid-state component and requires minimal maintenance. To ensure its longevity and optimal performance:

- **Keep Environment Clean:** Operate your computer in a clean, dust-free environment to prevent dust buildup inside the case, which can affect cooling and component lifespan.
- **Avoid Physical Damage:** Handle the module with care during installation or removal. Avoid bending, dropping, or applying excessive force.
- **Temperature Control:** Ensure your computer's cooling system is functioning correctly to maintain optimal operating temperatures for all components, including RAM.

Do not attempt to clean the gold contacts with abrasive materials or harsh chemicals. If cleaning is necessary, use a soft, lint-free cloth and isopropyl alcohol.

7. TROUBLESHOOTING

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

Common Issues and Solutions:

- **System Does Not Boot / No Display:**
 - Ensure the memory module is fully and correctly seated in its slot. Re-seat the module firmly.
 - If multiple modules are installed, try booting with only one module at a time to identify a potentially faulty module or slot.
 - Consult your motherboard manual for correct slot population order, especially if you are using fewer than all available slots.
- **Incorrect RAM Amount Detected:**

- Verify the module is fully seated.
- Check your system's BIOS/UEFI settings to confirm the detected memory.
- Ensure your operating system is 64-bit if you are installing more than 4GB of total RAM (though this module is 2GB, it's good general advice for upgrades).

- **System Instability / Crashes / Blue Screens:**

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic or MemTest86) to check for errors.
- Ensure your motherboard's BIOS/UEFI is up to date.
- Check for proper system cooling to prevent overheating.

If these steps do not resolve the issue, please contact A-Tech customer support for further assistance.

8. WARRANTY AND SUPPORT

A-Tech memory modules undergo stringent quality control testing to ensure dependable and reliable performance. This product is backed by A-Tech's Limited Lifetime Warranty.

For warranty claims, technical support, or any questions regarding your A-Tech memory module, please visit the official A-Tech website or contact their customer support team. Details for contacting support are typically available on the product packaging or the A-Tech website.



Image: A-Tech memory modules undergoing extensive quality control testing.

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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

Anonymous

Email

you@example.com

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

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