

A-Tech ASM069

A-Tech 16GB DDR4 2666MHz PC4-21300 DIMM Memory Module User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your A-Tech 16GB DDR4 2666MHz PC4-21300 DIMM Non-ECC UDIMM Memory Module (Model: ASM069). This memory module is designed to enhance the performance of compatible desktop computer systems by expanding their Random Access Memory (RAM) capacity. Please read this manual thoroughly before proceeding with installation.



Image: A-Tech 16GB DDR4 RAM module shown with various desktop computer setups, illustrating compatibility with desktop PCs.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the memory module or your computer system, and to ensure personal safety:

- **Electrostatic Discharge (ESD) Protection:** Memory modules are sensitive to static electricity. Always handle the module by its edges and avoid touching the gold connector pins or the integrated circuits. Use an anti-

static wrist strap or discharge static electricity by touching a grounded metal object (e.g., the unpainted metal chassis of your computer) before handling the module.

- **Power Off:** Always power off your computer and disconnect it from the power outlet before opening the computer case or installing/removing any components.
- **Compatibility:** Ensure the memory module is compatible with your motherboard and CPU. Refer to your system's manual for specific memory requirements.
- **Proper Handling:** Do not bend, drop, or apply excessive force to the memory module.
- **Ventilation:** Ensure adequate ventilation inside your computer case to prevent overheating of components.

3. INSTALLATION GUIDE

3.1. Before You Begin

- **Verify Compatibility:** Confirm that your computer's motherboard supports DDR4 DIMM memory at 2666MHz and the 16GB capacity. Refer to your motherboard's manual.
- **Gather Tools:** You may need a Phillips head screwdriver.
- **Prepare Workspace:** Work on a clean, well-lit, and static-free surface.
- **Backup Data:** While RAM installation is generally safe, it is good practice to back up important data before performing any hardware changes.

3.2. Step-by-Step Installation

Follow these steps to install the A-Tech 16GB DDR4 memory module:

1. **Power Down:** Shut down your computer completely and unplug the power cord from the wall outlet.
2. **Open Case:** Open your computer's side panel to access the motherboard.
3. **Locate DIMM Slots:** Identify the DDR4 DIMM slots on your motherboard. These are typically long slots with clips on either end. Consult your motherboard manual for optimal slot configuration if installing multiple modules.
4. **Prepare Slots:** Gently push the clips at both ends of the DIMM slot outwards to open them.
5. **Insert Module:** Hold the A-Tech memory module by its edges, aligning the notch on the module with the key in the DIMM slot.

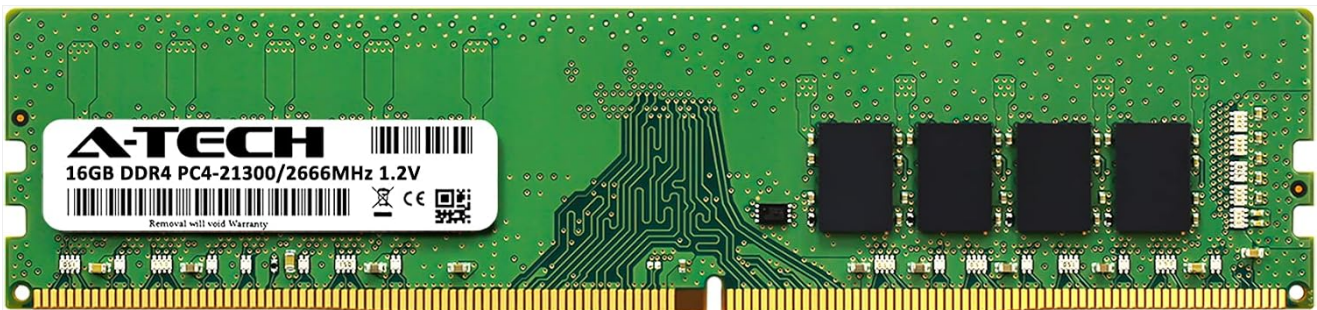


Image: A-Tech 16GB DDR4 RAM module, showing the gold connector pins and the notch for proper alignment during installation.

6. **Apply Pressure:** With the module aligned, press down firmly and evenly on both ends of the module until the clips snap into place, securing the module. Do not force it if it doesn't seat easily; re-check alignment.
7. **Verify Seating:** Ensure the clips are fully closed and the module is seated flush in the slot.

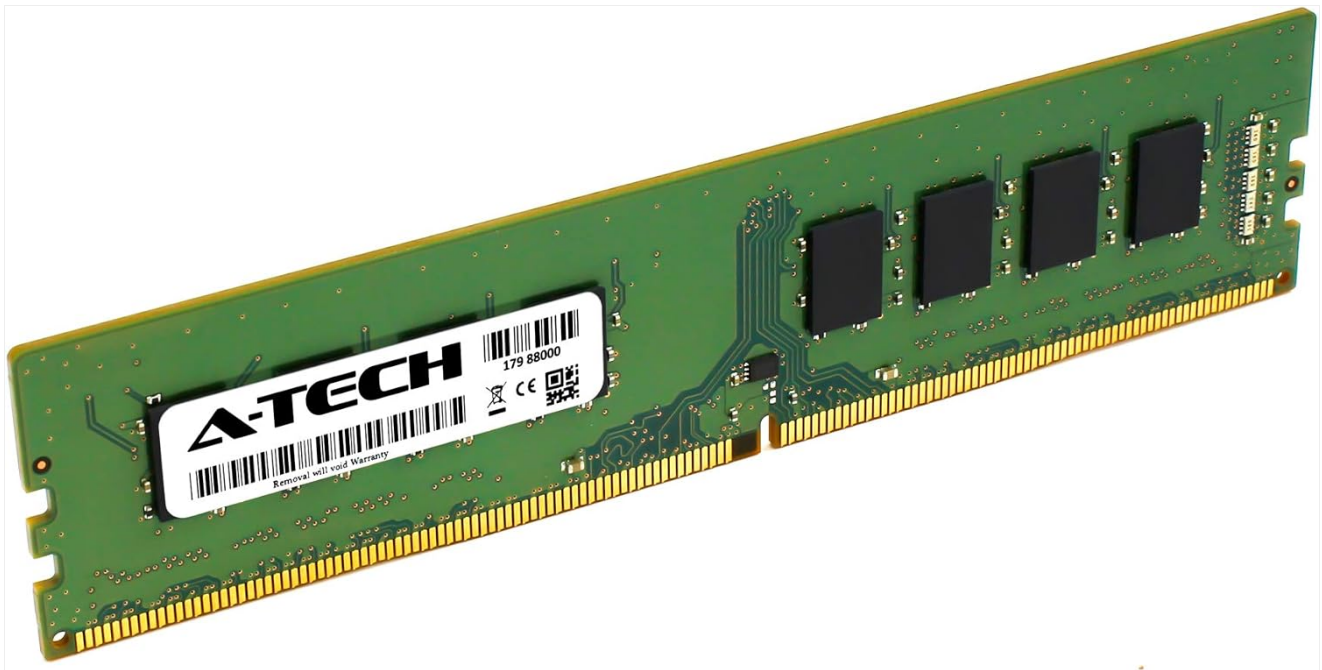


Image: Angled view of the A-Tech 16GB DDR4 RAM module, illustrating its physical form factor and components.

8. **Close Case:** Replace the computer's side panel.
9. **Reconnect Power:** Plug the power cord back into the wall outlet.
10. **Power On:** Turn on your computer. The system should automatically detect the new memory. You may need to check your system's BIOS/UEFI settings to confirm the memory is recognized and running at the correct speed.

4. OPERATION

Once installed, the A-Tech 16GB DDR4 memory module operates automatically with your computer's operating system. Its primary function is to provide fast, temporary storage for data that the CPU actively uses. Increasing your system's RAM capacity offers several benefits:

- **Improved Multitasking:** Run more applications simultaneously without experiencing slowdowns.
- **Faster Application Loading:** Applications and large files load quicker.
- **Enhanced System Responsiveness:** Overall system performance feels smoother and more responsive.
- **Better Gaming/Content Creation:** Supports more demanding games and professional software for video editing, graphic design, etc.



Image: A person efficiently managing multiple tasks across two computer screens, demonstrating the benefits of increased memory for multitasking.

UPGRADE PERFORMANCE

Reduce bottlenecks, speed up data processing, and improve the stability of your Desktop PC with A-Tech Memory



Image: Two A-Tech DDR4 memory modules, emphasizing the performance upgrade they provide to a desktop PC.

5. MAINTENANCE

A-Tech memory modules are designed for long-term reliability and generally require minimal maintenance. However, following these general computer maintenance practices can help ensure optimal system performance and longevity:

- **Keep System Clean:** Regularly clean the interior of your computer case to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to gently remove dust from components, including around RAM slots.
- **Ensure Proper Ventilation:** Make sure your computer case has adequate airflow and is not placed in an enclosed space that restricts ventilation.
- **Software Updates:** Keep your operating system and drivers updated to ensure compatibility and optimal performance with all hardware components.
- **Avoid Physical Stress:** Do not apply pressure or stress to the memory modules once installed.

6. TROUBLESHOOTING

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

- **System Not Booting/No Display:**
 - Ensure the memory module is fully seated in its slot and the clips are locked.
 - Try reseating the module.
 - If you have multiple modules, try installing only the new A-Tech module in different slots to isolate the issue.
 - Check your motherboard manual for specific memory slot configurations.
- **Incorrect Memory Capacity Detected:**
 - Verify that your motherboard supports the total memory capacity installed.
 - Check your system's BIOS/UEFI settings to confirm the memory is recognized. Update BIOS/UEFI if necessary.
- **System Instability/Crashes:**
 - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic or MemTest86) to check for errors.

- Ensure your system's BIOS/UEFI settings for memory speed and voltage are correct (DDR4 standard 1.2V).
- **Compatibility Issues:**
 - Double-check your motherboard's QVL (Qualified Vendor List) for compatible memory modules.
 - Ensure your motherboard supports DDR4 memory. This module is not compatible with DDR3 or older memory slots.

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

7. SPECIFICATIONS

Feature	Detail
Module Capacity	16 GB
Memory Type	DDR4 DIMM
Speed	2666 MHz (PC4-21300 / PC4-2666)
Pin Count	288-Pin
Error Correction	Non-ECC Unbuffered
Voltage	1.2V
Model Number	ASM069
Dimensions (LxWxH)	5.25 x 1.18 x 0.15 inches (133.35 x 30 x 3.8 mm)
Compatible Biostar Models	B250GT5, B350GT3, B350GT5, B450MHC, B45M2, H310MHD PRO, TB350-BTC, X570GT8, X570GTA, Z270GT6, Z270GT8, Z270GT9

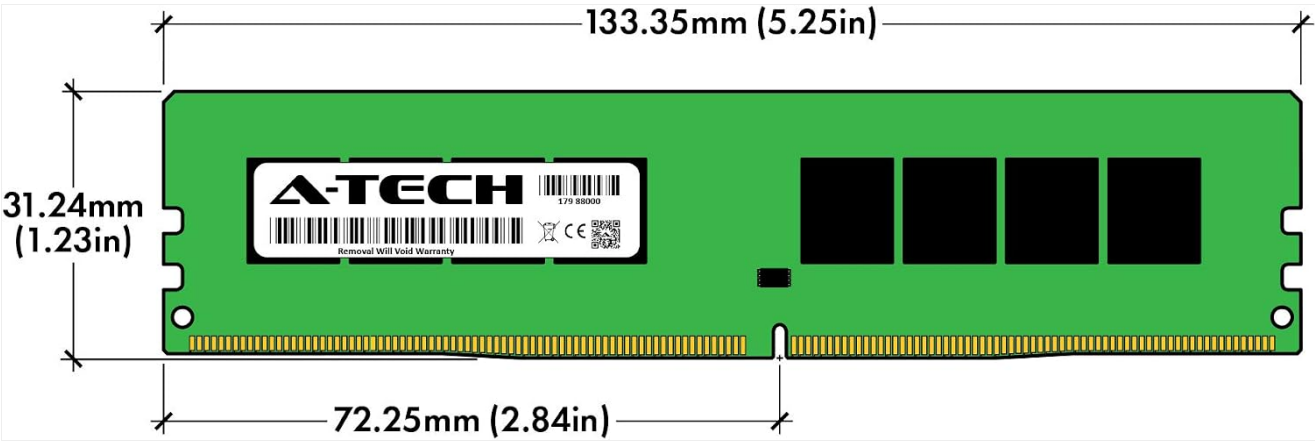


Image: Technical diagram illustrating the precise dimensions of the A-Tech 16GB DDR4 memory module in both millimeters and inches.

8. WARRANTY AND SUPPORT

A-Tech memory modules are backed by a **Limited Lifetime Warranty**, ensuring dependable and reliable performance throughout the product's lifespan. This warranty covers defects in materials and workmanship under normal use.

For technical assistance, warranty claims, or any questions regarding your A-Tech product, please contact our knowledgeable Tech Team. You can find more information and support resources on our official website:

[Visit A-Tech Support Page](#)



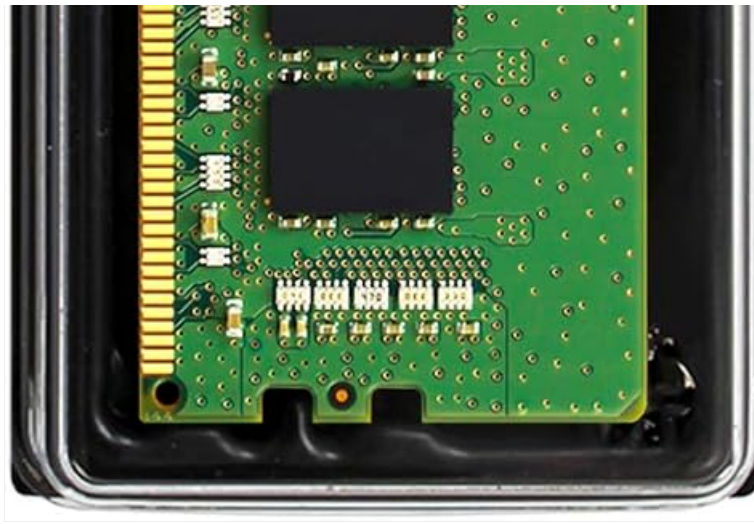


Image: The A-Tech 16GB DDR4 memory module in its protective retail packaging, highlighting the product label, QR code for quick access to information, and a warning about electrostatic sensitivity.



Image: A professional working on a computer, illustrating the reliability of A-Tech memory modules through extensive quality control testing.