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› A-Tech 16GB DDR3 / DDR3L 1333MHz Desktop Memory Kit Instruction Manual

A-Tech AT8G2D3D1333ND8N135V

A-Tech 16GB DDR3 / DDR3L 1333MHz Desktop Memory Kit Instruction Manual

Model: AT8G2D3D1333ND8N135V | **Brand:** A-Tech

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1. INTRODUCTION

This manual provides instructions for the installation and use of your A-Tech 16GB DDR3 / DDR3L 1333MHz Desktop Memory Kit. This kit includes two 8GB PC3-10600 Non-ECC Unbuffered DIMM modules, designed to enhance the performance of compatible desktop computer systems.

1.1. Package Contents

- 2 x 8GB A-Tech DDR3 / DDR3L 1333MHz Desktop Memory Modules
- Instruction Manual (this document)



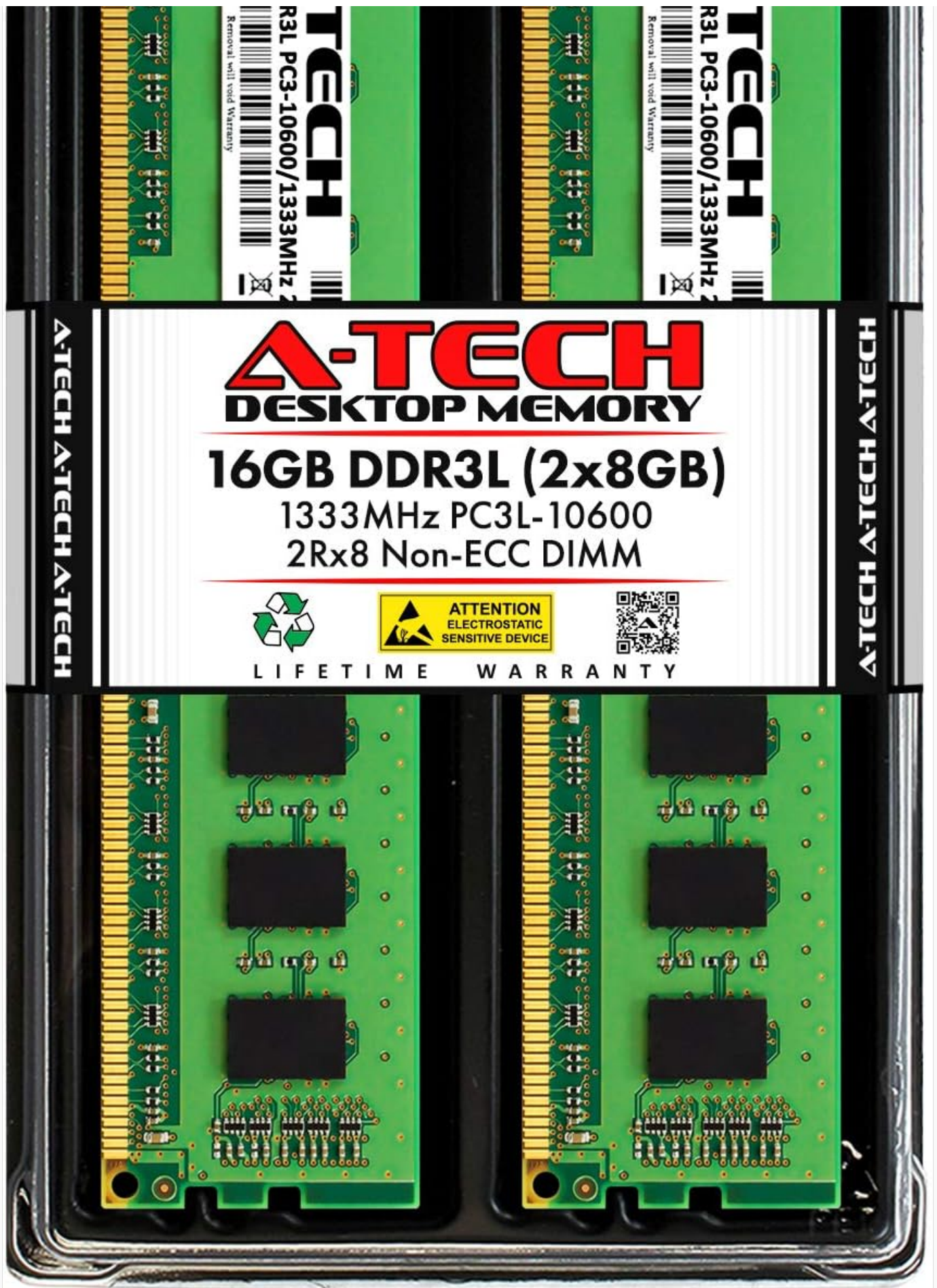


Figure 1: The A-Tech 16GB DDR3/DDR3L Desktop Memory Kit as it appears in its retail packaging, showing two 8GB modules.

2. IMPORTANT SAFETY INFORMATION

Please read and follow these safety guidelines to prevent damage to your computer or the memory modules, and to ensure personal safety during installation.

- **Power Off:** Always power off your computer and disconnect it from the power outlet before opening the case or handling internal components.
- **Static Electricity:** Static electricity can damage electronic components. Discharge static electricity by touching a grounded metal object (e.g., the unpainted metal chassis of your computer) before handling the memory modules. Consider using an anti-static wrist strap.
- **Handle with Care:** Hold memory modules by their edges. Avoid touching the gold connector pins or the integrated circuits (chips) on the module.
- **Ventilation:** Ensure your computer system has adequate ventilation to prevent overheating, especially after hardware upgrades.
- **Professional Installation:** If you are unsure about any step, consult a qualified technician.

3. SETUP AND INSTALLATION

Follow these steps carefully to install your new A-Tech DDR3 / DDR3L desktop memory modules.

3.1. Pre-Installation Checklist

1. **Compatibility Check:** Verify that your computer system supports DDR3 or DDR3L DIMM memory modules and the 1333MHz speed. Refer to your system's manual for specific memory requirements.
2. **Backup Data:** It is recommended to back up important data before performing any hardware upgrades.
3. **Gather Tools:** You may need a Phillips head screwdriver.
4. **Work Area:** Choose a clean, well-lit, and static-free work area.

3.2. Installation Steps

1. **Power Down:** Shut down your computer completely and unplug the power cord from the wall outlet.
2. **Open Case:** Open your computer's case. Consult your computer's manual for instructions on how to safely open the chassis.
3. **Discharge Static:** Touch an unpainted metal part of the computer chassis to discharge any static electricity from your body.
4. **Locate DIMM Slots:** Identify the DIMM (Dual In-line Memory Module) slots on your motherboard. These are typically long slots with clips on either end.
5. **Prepare Slots:** If you are replacing existing memory, gently push the clips on both ends of the DIMM slot outwards to release the old module. If installing into empty slots, ensure the clips are open.
6. **Insert Memory:** Align the notch on the A-Tech memory module with the key in the DIMM slot. Gently but firmly push the module straight down into the slot until the clips on both sides snap into place. You may need to apply even pressure to both ends of the module.
7. **Verify Seating:** Ensure the module is fully seated and the clips are securely locked. The gold contacts should not be visible.
8. **Close Case:** Once all modules are installed, close your computer's case.
9. **Reconnect Power:** Plug the power cord back into the wall outlet and power on your computer.

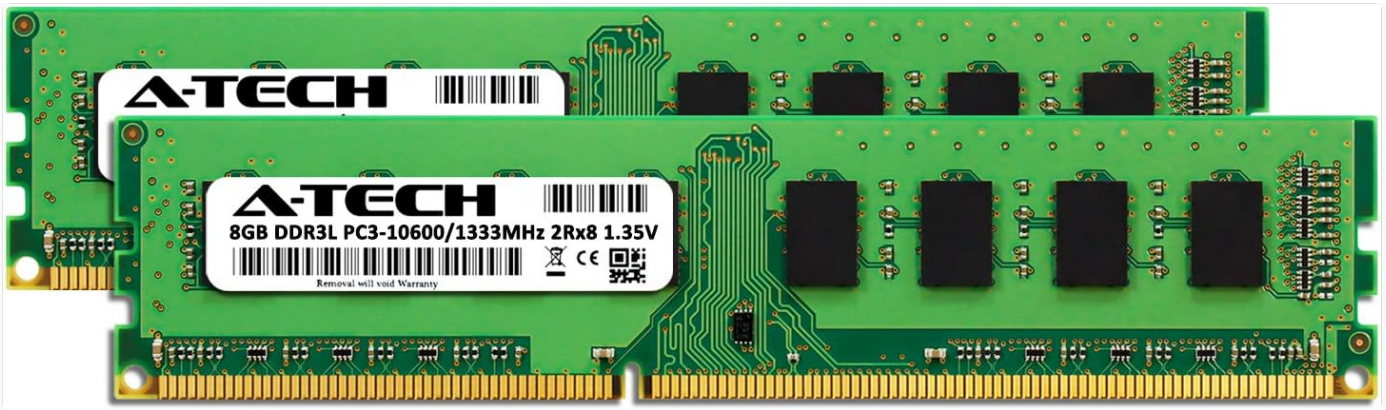


Figure 2: Two A-Tech 8GB DDR3/DDR3L memory modules, ready for installation.

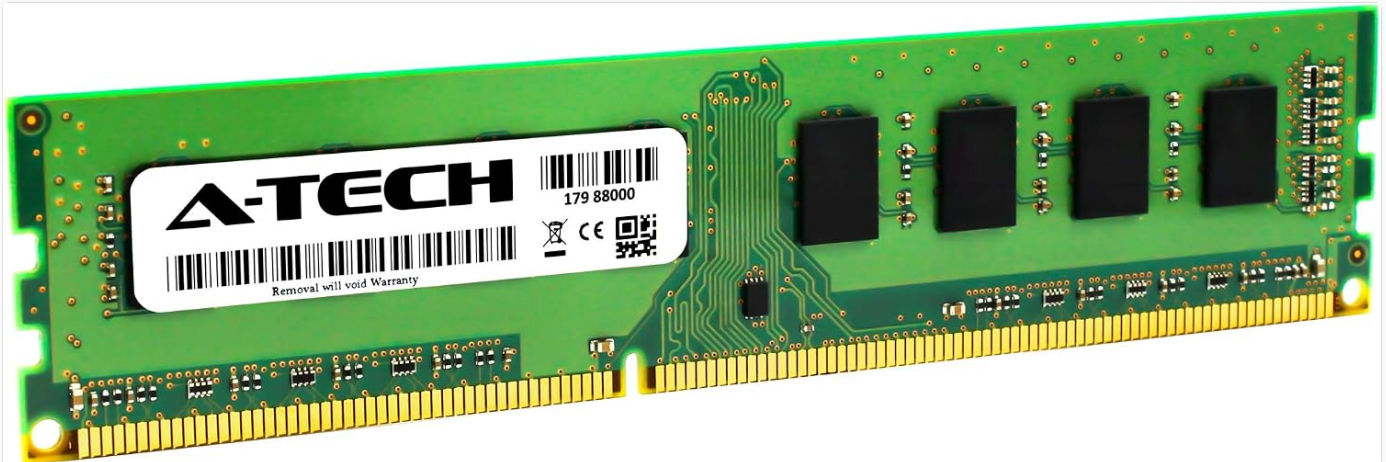


Figure 3: A single A-Tech DDR3/DDR3L memory module, highlighting the alignment notch.

3.3. Post-Installation

After installation, your computer should automatically detect the new memory. You can verify the installed memory in your operating system's system information or in the BIOS/UEFI settings.

- **Windows:** Right-click "This PC" or "My Computer" > "Properties" to view installed RAM.
- **BIOS/UEFI:** Access your system's BIOS/UEFI settings during startup (usually by pressing Del, F2, F10, or F12) to check memory detection.

4. OPERATING PRINCIPLES AND COMPATIBILITY

Understanding how memory functions and its compatibility requirements is crucial for optimal system performance.

4.1. What is RAM?

Memory (RAM) provides a temporary storage location for data that applications actively use. This allows your computer's processor to quickly access information, improving overall system responsiveness. When multiple programs are running simultaneously or resource-intensive tasks (like video editing or gaming) are performed, a sufficient amount of RAM helps maintain smooth operation by preventing bottlenecks.

4.2. Memory Types and Form Factors

This A-Tech memory kit consists of **DDR3 / DDR3L DIMM** modules. It is important to note the distinctions:

- **DDR3/DDR3L:** This refers to the generation of Double Data Rate Synchronous Dynamic Random-Access Memory. DDR3L is a low-voltage variant of DDR3, operating at 1.35V, but is also compatible with systems requiring 1.5V DDR3. This kit supports both voltages.
- **DIMM (Dual In-line Memory Module):** This is the standard form factor for desktop computers, workstations, and

servers. DIMM modules are physically larger than SODIMM (Small Outline DIMM) modules, which are used in laptops and some compact systems. DIMM and SODIMM are not interchangeable.

- **Non-ECC Unbuffered:** This memory type is primarily used in desktop PCs, laptops, and All-in-One (AIO) computers. ECC (Error-Correcting Code) memory is typically found in servers and some workstations for enhanced data integrity. Non-ECC memory cannot be mixed with ECC memory in the same system.

Always refer to your system's manual to determine the exact RAM specifications supported by your motherboard, including type (DDR3, DDR4, etc.), form factor (DIMM or SODIMM), and ECC requirements.

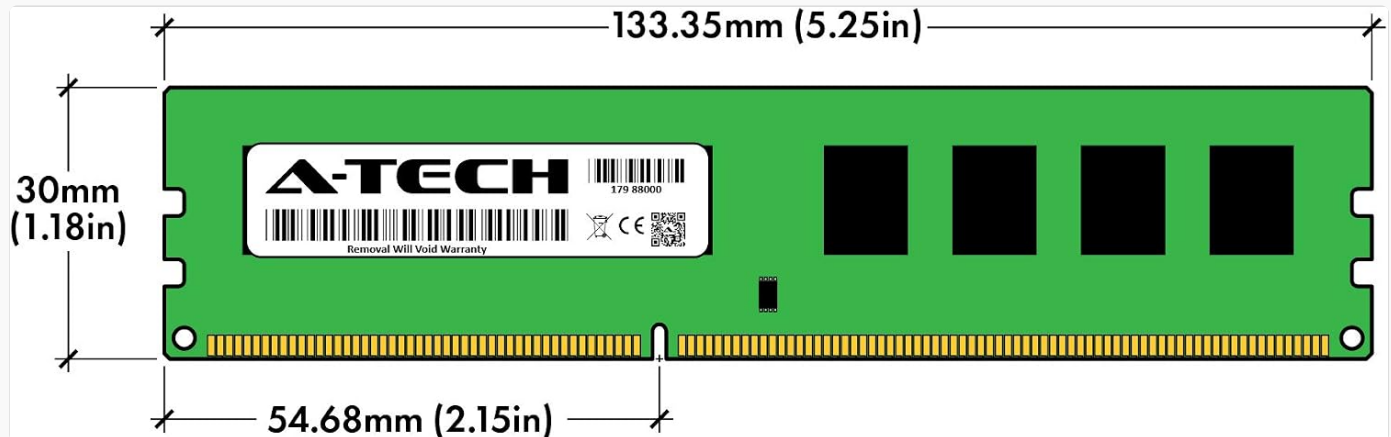


Figure 4: Dimensional diagram of an A-Tech DDR3/DDR3L DIMM module, showing its physical size.

5. TROUBLESHOOTING

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

- **System Not Booting / No Display:**
 - Ensure the memory modules are fully seated in their slots. Re-seat them by pressing down firmly until the clips snap into place.
 - Verify that the memory modules are compatible with your motherboard. Check your motherboard's manual for supported RAM types and speeds.
 - If you installed multiple modules, try booting with only one module at a time to identify a potentially faulty module.
 - Clear the CMOS (Complementary Metal-Oxide-Semiconductor) settings on your motherboard. Refer to your motherboard manual for instructions.
- **Incorrect RAM Amount Detected:**
 - Check your system's BIOS/UEFI settings to confirm the detected memory.
 - Ensure your operating system is a 64-bit version to fully utilize more than 4GB of RAM.
 - Re-seat the memory modules as described above.
- **System Instability / Blue Screens (BSOD):**
 - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors.
 - Ensure your system's BIOS is updated to the latest version, as this can improve memory compatibility.
 - Verify that the memory voltage settings in your BIOS are correct (1.35V or 1.5V, as supported by your motherboard).

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

6. PRODUCT SPECIFICATIONS

Brand	A-Tech
Model Number	AT8G2D3D1333ND8N135V
Capacity	16GB (2 x 8GB Modules)
Memory Type	DDR3 / DDR3L DIMM
Speed	1333MHz (PC3-10600)
Error Correction	Non-ECC Unbuffered
Rank	2Rx8
Voltage	1.35V (Low Voltage) / 1.5V Compatible
Pin Count	240-Pin
Form Factor	Desktop (DIMM)

7. WARRANTY AND SUPPORT

A-Tech stands behind the quality of its products.

- **Lifetime Warranty:** This A-Tech memory kit is backed by a Lifetime Warranty, ensuring long-term reliability and peace of mind.
- **Technical Support:** Free United States-based technical support is available to assist you with any questions or issues regarding your A-Tech memory.

For warranty claims or technical assistance, please visit the official A-Tech website or contact their support team directly.

A-Tech Website: <https://atechmemory.com/>

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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