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› A-Tech 8GB (2 x 4GB) DDR4 2133MHz DIMM Memory Upgrade Kit for Lenovo THINKCENTRE M800 User Manual

A-Tech AOH027

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and troubleshooting of your A-Tech 8GB (2 x 4GB) DDR4 2133MHz DIMM Memory Upgrade Kit. This kit is specifically designed to enhance the performance of compatible Lenovo THINKCENTRE M800 (SFF/Tower) desktop computer systems. Please read these instructions carefully before proceeding with the installation.

2. PRODUCT OVERVIEW

The A-Tech memory upgrade kit consists of two 4GB DDR4 DIMM modules, totaling 8GB of high-performance RAM. These modules operate at 2133MHz with a voltage of 1.2V and are Non-ECC Unbuffered (UDIMM) 288-Pin modules, ensuring compatibility and reliable operation with your specified system.



Image 2.1: Two A-Tech 4GB DDR4 DIMM memory modules, showing the product as a pair.

3. SPECIFICATIONS

Feature	Specification
Memory Capacity	8GB (2 x 4GB)
Memory Type	DDR4 SDRAM
Memory Speed	2133 MHz (PC4-17000)
Pin Count	288-Pin
Error Correction	Non-ECC Unbuffered (UDIMM)
Voltage	1.2 Volts
Compatible Devices	Desktop (Specifically Lenovo THINKCENTRE M800 SFF/Tower)
Model Number	AOH027

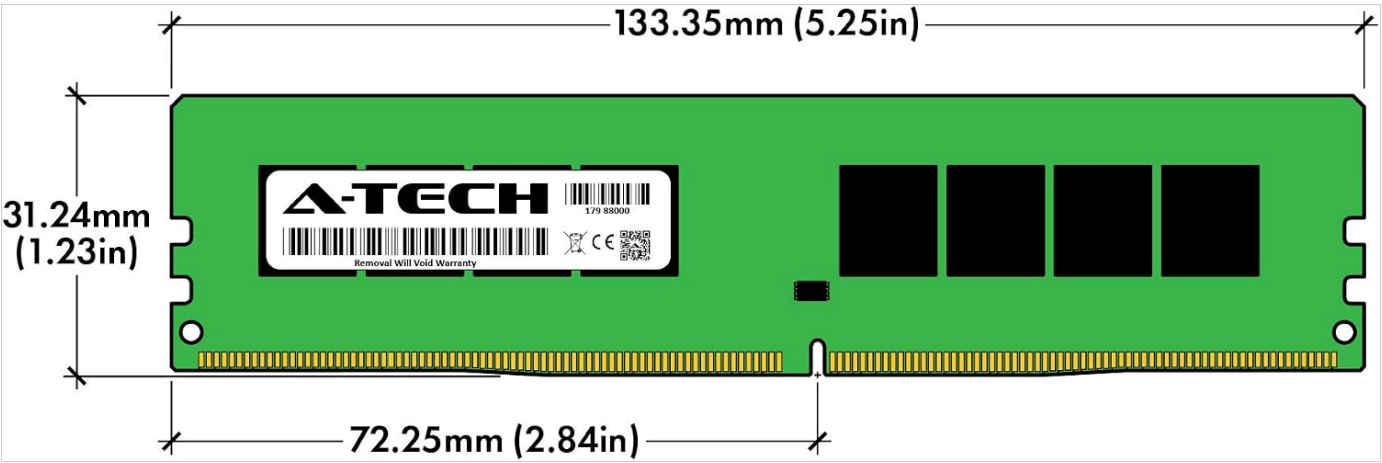


Image 3.1: Physical dimensions of an A-Tech DDR4 DIMM memory module.

4. COMPATIBILITY

This A-Tech 8GB (2 x 4GB) DDR4 2133MHz DIMM kit is engineered for specific compatibility with **Lenovo THINKCENTRE M800 (SFF/Tower)** desktop computer systems. It is designed for desktop PCs and is **not compatible** with laptop computers, which typically require SODIMM modules. Always refer to your system's manual or manufacturer's specifications to confirm the supported RAM type, speed, and capacity before installation. Using incompatible memory can lead to system instability or failure to boot.



Image 4.1: Visual representation of desktop computer compatibility.

5. SETUP AND INSTALLATION

Before beginning the installation process, ensure you have read and understood all instructions. Improper installation can damage your computer components.

Safety Precautions:

- **Power Off:** Completely shut down your computer and unplug it from the power outlet.
- **Static Discharge:** Ground yourself before touching any internal components to prevent electrostatic discharge (ESD), which can damage sensitive electronics. You can do this by touching a metal part of the computer chassis before handling the RAM modules.
- **Handle with Care:** Hold the RAM modules by their edges, avoiding contact with the gold connectors or the chips.

Installation Steps:

1. **Open the Computer Case:** Remove the side panel of your desktop computer case to access the motherboard. Refer to your computer's manual for specific instructions on opening the case.
2. **Locate RAM Slots:** Identify the DIMM slots on your motherboard. These are typically long slots near the CPU. Your Lenovo THINKCENTRE M800 will have specific slots for DDR4 DIMMs.
3. **Prepare Slots:** If you are replacing existing RAM, gently push down the small clips on both ends of the DIMM slot to release the old module. If installing into empty slots, ensure the clips are open.
4. **Insert New RAM:** Align the notch on the A-Tech DDR4 DIMM 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, securing the module. Do not force the module; if it doesn't fit, recheck the alignment.
5. **Install Second Module:** Repeat the process for the second 4GB DDR4 DIMM module, ensuring it is installed in the correct corresponding slot for dual-channel operation, if applicable to your system (refer to your motherboard manual).
6. **Close Case and Power On:** Once both modules are securely installed, replace the computer's side panel and reconnect all cables. Power on your computer.
7. **Verify Installation:** Upon booting, your system should automatically detect the new memory. You can verify the installed RAM capacity through your operating system's system information (e.g., Task Manager in Windows, About This Mac in macOS, or system monitor in Linux).

6. OPERATING YOUR SYSTEM WITH NEW MEMORY

Once installed, the A-Tech DDR4 memory modules operate automatically. Your operating system and applications will utilize the increased memory capacity to improve multitasking, speed up data processing, and enhance overall system responsiveness. No specific software or drivers are required for the memory modules themselves.

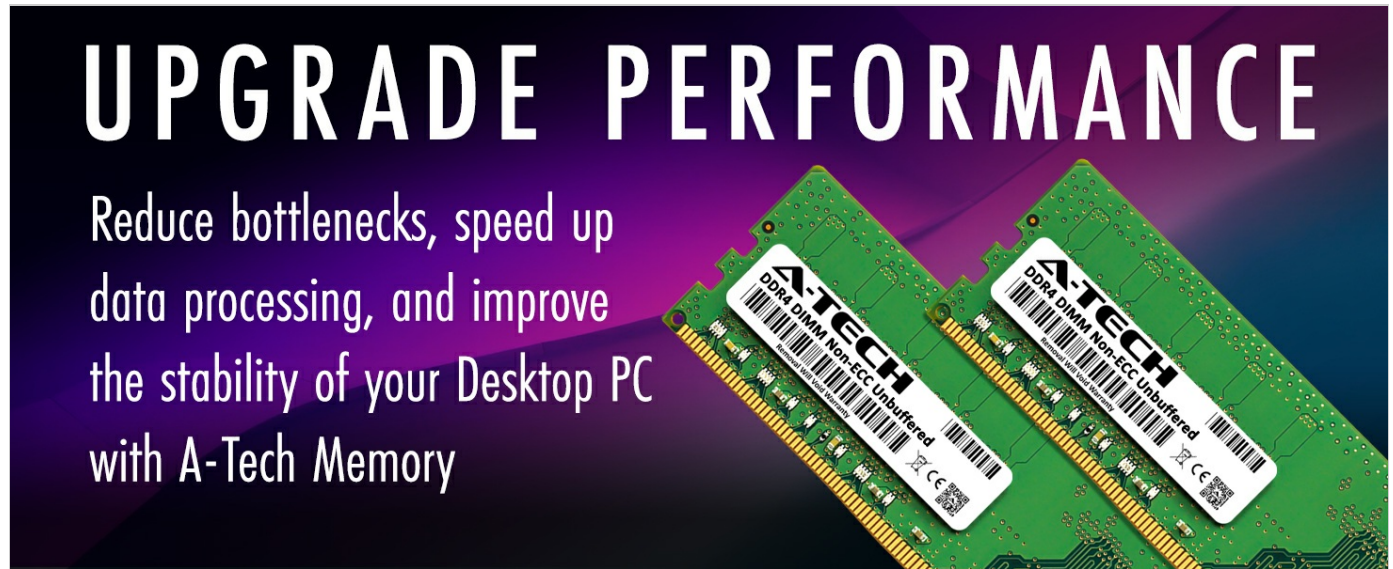


Image 6.1: Representation of enhanced system performance after a memory upgrade.

7. MAINTENANCE

A-Tech memory modules are designed for long-term reliability and generally require no specific maintenance. To ensure optimal performance and longevity of your computer system, consider the following general maintenance tips:

- **Keep System Clean:** Regularly clean the interior of your computer case to prevent dust buildup, which can impede airflow and lead to overheating.
- **Proper Ventilation:** Ensure your computer has adequate ventilation to dissipate heat effectively.
- **Software Updates:** Keep your operating system and drivers updated to ensure compatibility and optimal performance with all hardware components.

8. TROUBLESHOOTING

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

Common Issues and Solutions:

- **System Does Not Boot / 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 RAM type (DDR4) and speed (2133MHz) are compatible with your motherboard.
- **Incorrect RAM Capacity Detected:**
 - Check if both modules are properly installed and detected by the BIOS/UEFI.
 - Ensure your operating system is a 64-bit version to fully utilize more than 4GB of RAM.

- **System Instability / Blue Screens:**

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors.
- Ensure your motherboard's BIOS/UEFI is updated to the latest version, as this can improve memory compatibility.

If these steps do not resolve your issue, please contact A-Tech Technical Support.

9. WARRANTY AND SUPPORT

A-Tech memory modules come with a **Lifetime Warranty**, ensuring peace of mind regarding your investment. In the event of any issues or for technical assistance, A-Tech provides free United States-based technical support. For warranty claims or technical support, please visit the official A-Tech website or contact their support team directly. You can find more information and contact details at: [A-Tech Memory Official Website](#)



Image 9.1: A-Tech's commitment to quality and reliability through testing.

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