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A-Tech AOH308

A-Tech 4GB DDR4 2400MHz SODIMM Memory Module User Manual

Model: AOH308

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your A-Tech 4GB DDR4 2400MHz SODIMM Memory Module. Please read this manual thoroughly before installation to ensure proper handling and optimal performance.

Figure 1: A-Tech 4GB DDR4 2400MHz SODIMM Memory Module. This image shows the top view of the memory module with its label clearly visible, indicating capacity, speed, and voltage.

2. Compatibility

This A-Tech memory module is specifically designed and tested for compatibility with the following systems:

- **HP 14 Series:** Specifically models like 14-AM080LA.
- Systems requiring DDR4 SODIMM (Small Outline Dual In-line Memory Module) memory.
- Systems supporting a memory speed of 2400MHz (PC4-19200).
- Systems operating at 1.2V.
- Systems that utilize 260-Pin Non-ECC Unbuffered memory.

Important: Always verify your system's memory specifications (type, speed, voltage, form factor, and ECC status) with your computer's manufacturer documentation before installing new memory.

Figure 2: Compatibility overview. This image illustrates the types of systems (laptops, mini PCs, AIOs) that typically use SODIMM memory modules.

3. Safety Information

Observe the following precautions to prevent damage to the memory module or your computer:

- **Static Electricity:** Always discharge static electricity from your body before handling memory modules. Touch a grounded metal object (like the computer chassis) before touching any internal components. Consider using an anti-static wrist strap.
- **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet before opening the case or handling internal components.
- **Handle with Care:** Hold the memory module by its edges. Avoid touching the gold connectors or the integrated circuits (chips) on the module.
- **Proper Tools:** Use appropriate tools, such as a small Phillips head screwdriver, if required to open your laptop.

4. Setup and Installation

Follow these steps carefully to install your new A-Tech memory module:

1. **Prepare Your System:**
    - Shut down your laptop completely.
    - Disconnect the AC adapter and remove the battery (if user-removable).
    - Discharge any residual power by holding down the power button for 15-20 seconds.
2. **Access Memory Slots:**
    - Carefully open your laptop's memory compartment. This usually involves removing screws from a panel on the bottom of the laptop. Refer to your laptop's service manual for exact instructions.
3. **Remove Existing Memory (if applicable):**
    - If you are replacing an existing module, gently push the small metal clips on either side of the memory module outwards. The module will pop up at an angle.
    - Carefully slide the module out of the slot. Store it in an anti-static bag if you plan to keep it.
4. **Install New Memory Module:**
    - Align the notch on the A-Tech memory module with the notch in the memory slot.
    - Insert the module firmly into the slot at a 45-degree angle.
    - Push down on the module until the metal clips on both sides snap into place, securing the module horizontally. Ensure it is seated correctly and fully latched.
5. **Reassemble and Power On:**
    - Replace the memory compartment cover and secure it with screws.
    - Reinsert the battery (if removed) and reconnect the AC adapter.
    - Power on your laptop.



Figure 3: Angled view of the A-Tech SODIMM. This image shows the module from an angle, highlighting the gold contacts and the notch for proper alignment during installation.

5. Verifying Installation

After installation, verify that the new memory is recognized by your system:

- **BIOS/UEFI:** Upon startup, enter your system's BIOS/UEFI settings (usually by pressing F2, Del, F10, or F12 during boot). Look for a "System Information" or "Memory" section to confirm the total installed RAM.

- **Operating System:**
    - **Windows:** Right-click on "This PC" or "My Computer" and select "Properties". The installed RAM will be displayed.
    - **macOS:** Click the Apple menu > "About This Mac". The memory information will be listed.
    - **Linux:** Open a terminal and type `free -h` or `cat /proc/meminfo`.

If the system does not boot or the memory is not recognized, refer to the Troubleshooting section.

6. Maintenance

Memory modules generally require no regular maintenance once installed. However, consider the following:

- **Dust:** If you open your computer for other maintenance, gently remove any dust accumulation around the memory slots using compressed air.
- **Physical Damage:** Avoid dropping or bending the module. Store unused modules in anti-static packaging.
- **Environmental Conditions:** Operate your computer within recommended temperature and humidity ranges to ensure the longevity of all components, including RAM.

7. Troubleshooting

If you encounter issues after installing the memory module, try the following:

Problem	Possible Solution
System does not boot / Black screen	◦ Ensure the memory module is fully seated in its slot. Remove and re-insert it firmly. ◦ Verify the module's notch aligns correctly with the slot's key. ◦ Check if your system's BIOS/UEFI is up to date. ◦ If multiple modules are installed, try booting with only one module at a time to identify a faulty one. ◦ Ensure the module is compatible with your system (refer to Section 2).
Incorrect RAM amount displayed	◦ Re-seat the memory module. ◦ Check your system's specifications for maximum supported RAM. ◦ Ensure your operating system is 64-bit to fully utilize more than 4GB of RAM.
System instability / Blue Screen of Death (BSOD)	◦ Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors. ◦ Ensure the module is properly seated. ◦ Verify compatibility.

8. Specifications

Feature	Detail
Brand	A-Tech
Model Number	AOH308

Feature	Detail
Memory Size	4 GB
Memory Technology	DDR4
Memory Speed	2400 MHz (PC4-19200)
Form Factor	260-Pin SODIMM
Voltage	1.2V
Error Correction	Non-ECC Unbuffered
CAS Latency	CL15
Compatible Devices	Laptops, Mini PCs, All-in-One (AIO) systems (specifically HP 14 Series 14-AM080LA)

Figure 4: Memory module dimensions. This diagram provides the physical measurements of the SODIMM module in both millimeters and inches.

9. Warranty and Support

Warranty: A-Tech memory modules come with a Limited Lifetime Warranty covering defects in materials and workmanship. For specific terms and conditions, please refer to the official A-Tech website or your purchase documentation.

Technical Support: For technical assistance, troubleshooting, or warranty claims, please contact A-Tech customer support. You can find contact information on the official A-Tech website: atechmemory.com.

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