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> A-Tech 8GB DDR3 SO-DIMM RAM Memory Module User Manual

A-Tech AM129553

A-Tech 8GB DDR3 SO-DIMM RAM Memory Module User Manual

Model: AM129553 | Brand: A-Tech

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1. INTRODUCTION

This user manual provides essential information for the A-Tech 8GB KIT (2 x 4GB) SO-DIMM DDR3 NON-ECC PC3-10600 1333MHz RAM Memory. It covers installation procedures, operational details, maintenance guidelines, troubleshooting tips, and product specifications. This memory kit is designed to enhance the performance of compatible Toshiba Satellite C660D series laptops by providing additional system memory.

2. SETUP & INSTALLATION

Installing the A-Tech RAM modules requires careful handling and adherence to safety precautions. It is recommended to consult your laptop's specific service manual for detailed instructions on accessing and replacing memory modules, as procedures may vary by model.

2.1 Safety Precautions

- Always power off your laptop completely and disconnect it from the power adapter and remove the battery before beginning installation.
- Discharge any static electricity from your body by touching a grounded metal object (e.g., an unpainted metal part of your computer chassis) before handling the memory modules.
- Handle the memory modules by their edges, avoiding contact with the gold connectors or the chips.

2.2 Installation Steps

- Prepare the Laptop:** Power down the laptop, disconnect all cables, and remove the battery.
- Access Memory Slots:** Locate and open the memory compartment cover on the underside of your laptop. This usually involves unscrewing a few small screws.
- Remove Existing Modules (if applicable):** If replacing existing modules, gently push the small metal clips on both sides of the module outwards. The module will pop up at an angle. Carefully pull it out of the slot.
- Insert New Modules:** Align the notch on the A-Tech SO-DIMM module with the key in the memory slot. Insert the module at a 45-degree angle into the slot.

5. **Secure Modules:** Gently push down on the module until the metal clips on both sides snap into place, securing the module horizontally.
6. **Close Compartment:** Replace the memory compartment cover and secure it with screws. Reinsert the battery and reconnect the power adapter.



Image 2.1: Two A-Tech 4GB DDR3 SO-DIMM RAM modules. These modules are designed for easy installation into compatible laptop memory slots.

3. OPERATION

Once installed, the A-Tech RAM modules operate automatically with your laptop's operating system. RAM (Random Access Memory) is a form of computer data storage that stores frequently used program instructions to enable quick access by the computer's processor. Upgrading your RAM increases the amount of data your system can handle simultaneously, leading to improved multitasking, faster application loading, and overall smoother system performance.



Image 3.1: Visual representation of performance enhancement. Upgrading RAM can significantly reduce bottlenecks and boost your laptop's overall performance.



Image 3.2: This memory kit is designed for compatibility with specific laptop, Mini PC, and All-in-One (AIO) systems. Always verify your system's memory requirements.

4. MAINTENANCE

A-Tech RAM modules are designed for long-term reliability and typically require no routine maintenance. To ensure optimal performance and longevity of your memory and laptop:

- Keep your laptop clean and free of dust, especially around ventilation areas, to prevent overheating which can affect all internal components.
- Avoid exposing your laptop to extreme temperatures or humidity.
- Ensure proper ventilation when using your laptop to prevent heat buildup.



Image 4.1: A-Tech memory modules undergo extensive quality control testing to ensure dependable and reliable performance, minimizing the need for maintenance.

5. TROUBLESHOOTING

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

- **System Not Booting or Black Screen:**
 - Ensure the memory modules are fully seated in their slots. Remove and reinsert them firmly.

- Try booting with only one module installed at a time to identify if one module is faulty.
- Verify that the memory type (DDR3 SO-DIMM) and speed (1333MHz) are compatible with your laptop's specifications.

• **Operating System Not Recognizing Full RAM:**

- Check your system's BIOS/UEFI settings to ensure the new RAM is detected correctly.
- Ensure you are running a 64-bit operating system to utilize more than 4GB of RAM.
- Update your laptop's BIOS/UEFI to the latest version, as this can sometimes improve memory compatibility.

• **System Instability or Blue Screens (BSOD):**

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors.
- Ensure the modules are correctly matched (e.g., same capacity and speed) if using a kit.

If issues persist after these steps, contact A-Tech customer support for further assistance.

6. SPECIFICATIONS

The following table details the technical specifications for the A-Tech 8GB KIT (2 x 4GB) SO-DIMM DDR3 NON-ECC PC3-10600 1333MHz RAM Memory:

Feature	Detail
Product Name	A-Tech 8GB KIT (2 x 4GB) SO-DIMM DDR3 NON-ECC PC3-10600 1333MHz RAM Memory
Model Number	AM129553
Capacity	8GB (2 x 4GB Modules)
Memory Type	DDR3 SO-DIMM
Speed	1333MHz (PC3-10600)
ECC Type	NON-ECC Unbuffered
Form Factor	204-Pin SO-DIMM
Product Dimensions	4.2 x 3.4 x 0.4 inches
Item Weight	1.2 ounces
Compatible Devices	Toshiba Satellite C660D-10T, C660D-10U, C660D-10W, C660D-112, C660D-113, C660D-115, C660D-118, C660D-11E, C660D-11K, C660D-11L, C660D-11N, C660D-11P, C660D-120, C660D-121, C660D-122, C660D-124, C660D-128, C660D-12E, C660D-12G, C660D-12L, C660D-12N, C660D-12R, C660D-12T, C660D-12U, C660D-135, C660D-13H, C660D-13V, C660D-140, C660D-141, C660D-143, C660D-145, C660D-146, C660D-147, C660D-149.

7. WARRANTY & SUPPORT

7.1 Warranty Information

A-Tech memory products are backed by a **Lifetime Warranty**. This warranty covers defects in materials and workmanship for the lifetime of the product. For specific terms and conditions, please refer to the official A-Tech warranty policy available on their website.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact A-Tech customer support. You can find contact information and additional resources on the official A-Tech website:

Visit A-Tech Official Website



Image 7.1: A-Tech Premium Memory logo, representing the brand's commitment to quality and support.

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