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› A-Tech 16GB (2x8GB) DDR3 SO-DIMM RAM Memory Module Installation Guide for Toshiba Satellite P855 Series

A-Tech AM127231



A-Tech 16GB (2x8GB) DDR3 SO-DIMM RAM Memory Module Installation Guide

For Toshiba Satellite P855 Series Laptops

1. INTRODUCTION

This manual provides comprehensive instructions for the installation and proper handling of your A-Tech 16GB (2x8GB) DDR3 SO-DIMM RAM memory modules. These modules are designed to enhance the performance of compatible Toshiba Satellite P855 series laptops. Please read this guide thoroughly before proceeding with installation.



Image 1.1: Two A-Tech 8GB DDR3 SO-DIMM RAM modules. These modules are small, rectangular circuit boards with memory chips, designed for laptop computers.

2. SAFETY INFORMATION

WARNING:

- Always power off and unplug your laptop from the power source before installing or removing memory modules.
- Disconnect the battery from the laptop if possible.
- Discharge any static electricity from your body by touching a grounded metal object (e.g., an unpainted metal surface on your computer chassis) before handling memory modules.
- Handle memory modules by their edges to avoid touching the gold connectors or the chips.
- Ensure the memory modules are compatible with your specific laptop model to prevent damage.

3. COMPATIBILITY

These A-Tech 16GB (2x8GB) DDR3 NON-ECC PC3-12800 1600MHz SO-DIMM RAM modules are specifically designed for the following Toshiba Satellite P855 series laptop models:

- P855-307, P855-30M, P855-30N, P855-30Q
- P855-31V, P855-32E, P855-32F, P855-32G, P855-32J, P855-32K, P855-32M, P855-32N, P855-32U, P855-32V
- P855-335, P855-33X, P855-345, P855-347, P855-34J, P855-34L, P855-34P
- P855-S5200, P855-S5312
- P855-SP5201L, P855-SP5261M, P855-SP5261SM, P855-SP5302SL, P855-SP5362SM, P855-SP5364SM (PSPLBU-0D2019)
- P870-023, P870-027, P870-02L, P870-10G

It is crucial to verify your laptop's specific model number and its memory requirements before installation. Refer to your system's manual to confirm compatibility. These modules are SO-DIMM (Small Outline Dual In-line Memory Module) type, designed for laptops and mini PCs, and are not compatible with desktop computers which typically use DIMM modules.

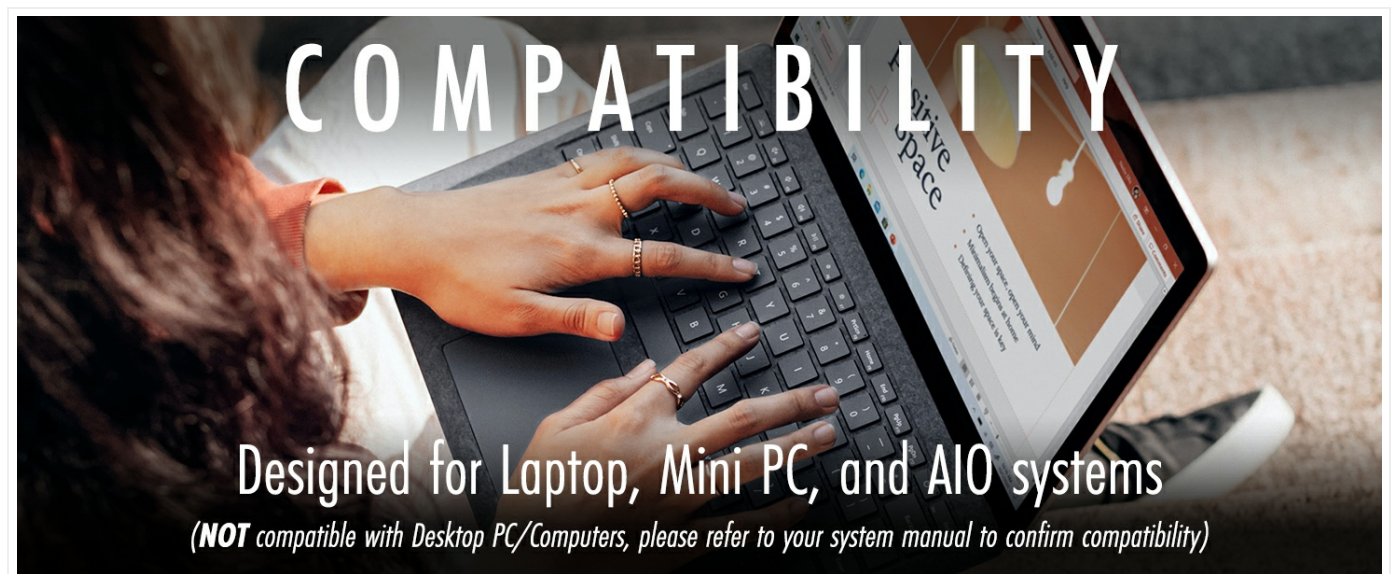


Image 3.1: Compatibility information for A-Tech memory, indicating suitability for laptops, mini PCs, and All-in-One systems.

4. PRODUCT OVERVIEW

The A-Tech 16GB (2x8GB) DDR3 SO-DIMM memory kit provides a significant upgrade for systems requiring DDR3 memory. Memory (RAM) serves as a temporary storage area for data that applications actively use, allowing your computer to access information quickly. Upgrading RAM can improve system responsiveness, especially when running multiple applications or performing resource-intensive tasks like video editing or gaming.

4.1 Types of RAM

There are various types of RAM, including DDR, DDR2, DDR3, DDR4, and DDR5. Each system supports only one specific type. These modules are DDR3, meaning they will only fit into DDR3 compatible slots. Different RAM types have distinct pin configurations and notch locations to prevent incorrect installation.

4.2 SO-DIMM vs. DIMM

SO-DIMM (Small Outline Dual In-line Memory Module) RAM, like the modules in this kit, is designed for compact devices such as laptops, notebooks, mini PCs, and some All-in-One (AIO) computers. DIMM RAM is larger and used in desktop computers and servers. These two form factors are not interchangeable.

4.3 ECC Type

These modules are Non-ECC Unbuffered memory, which is the standard type for most consumer laptops and desktop PCs. ECC (Error-Correcting Code) memory is typically used in servers and workstations for enhanced data integrity and is not compatible with systems designed for Non-ECC memory.



Image 4.1: A-Tech Laptop Memory DDR3 SODIMM packaging. The packaging clearly labels the product as DDR3 SODIMM for laptop use.

5. SETUP AND INSTALLATION

Follow these general steps to install your A-Tech SO-DIMM memory modules. Specific steps may vary slightly depending on your laptop model. Always consult your laptop's official service manual for detailed instructions.

1. Prepare Your Laptop:

- Save all open work and shut down your laptop completely.
- Disconnect the AC adapter and remove the battery.
- Discharge residual power by holding the power button for 10-15 seconds.
- Touch a grounded metal object to dissipate static electricity.

2. Access the Memory Slots:

- Carefully turn your laptop over.
- Locate the memory compartment cover, usually secured by screws.
- Unscrew and remove the cover.

3. Remove Existing Modules (if applicable):

- If you are replacing existing modules, gently push apart the small metal clips on both sides of the memory module.
- The module will pop up at an angle. Carefully pull it out of the slot.

4. Install New Memory Modules:

- Align the notch on the new A-Tech SO-DIMM 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.
- Repeat for the second module if installing both.

5. Reassemble Your Laptop:

- Replace the memory compartment cover and secure it with screws.
- Reinsert the battery and reconnect the AC adapter.
- Power on your laptop. The system should automatically detect the new memory.

Upon successful installation, your operating system's system information (e.g., Task Manager in Windows, About This Mac in macOS) should reflect the increased RAM capacity.

6. OPERATING YOUR SYSTEM WITH NEW MEMORY

Once the A-Tech memory modules are installed, your laptop will automatically utilize the increased RAM capacity. You should experience improved multitasking capabilities and faster application loading times. No specific operational steps are required beyond normal computer usage.

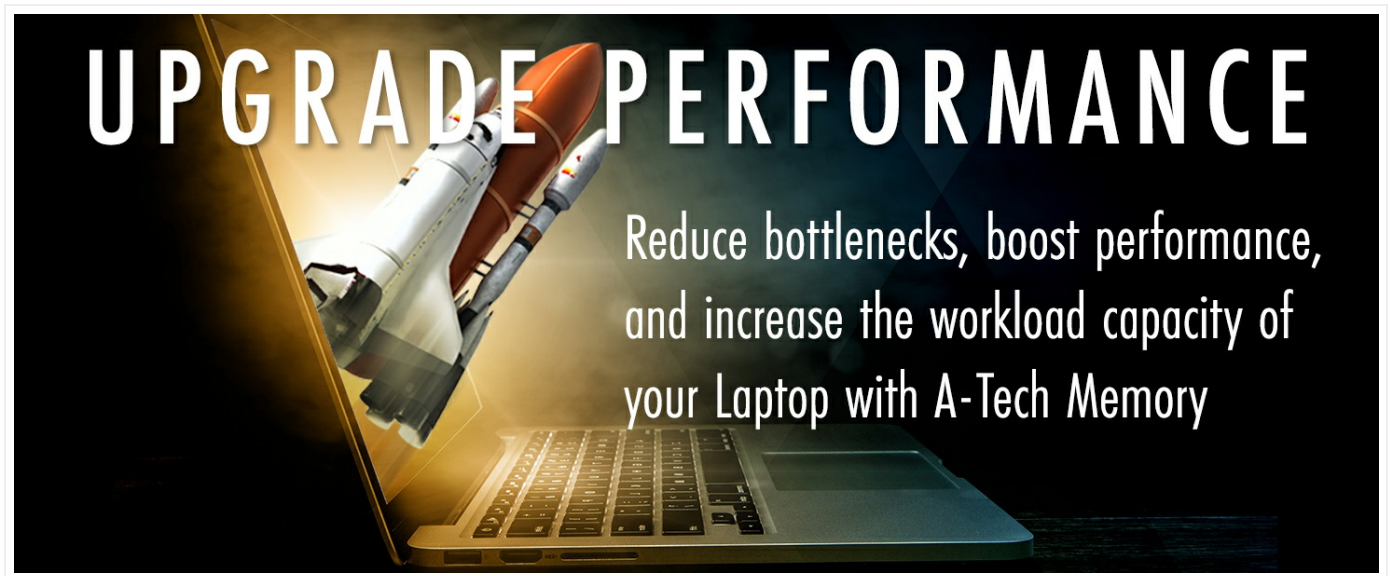


Image 6.1: Visual representation of performance upgrade. This image illustrates how A-Tech memory can enhance laptop performance by reducing bottlenecks and increasing workload capacity.

7. MAINTENANCE

Memory modules generally require no ongoing maintenance once installed. To ensure optimal performance and longevity of your system and its components:

- Keep your laptop in a clean, dust-free environment.
- Ensure proper ventilation to prevent overheating.
- Avoid physical shock or dropping your laptop.
- Regularly update your operating system and drivers.



Image 7.1: A-Tech's commitment to reliability. This image highlights that A-Tech memory undergoes rigorous testing for dependable performance.

8. TROUBLESHOOTING

If you encounter issues after installing the new memory, consider the following troubleshooting steps:

- **Laptop Does Not Boot or Beeps:**
 - Ensure the memory modules are fully seated in their slots. Remove and re-insert them firmly.
 - Verify that the notches on the modules align correctly with the slots.
 - Try installing one module at a time to identify if one is faulty.
 - Confirm that the memory type (DDR3 SO-DIMM) and speed (1600MHz) are correct for your laptop model.
- **System Shows Incorrect RAM Amount:**
 - Check your operating system's system information to confirm the detected RAM.
 - Ensure both modules are properly installed and detected by the BIOS/UEFI. You may need to access your laptop's BIOS/UEFI settings during startup (often by pressing F2, F10, DEL, or ESC).
 - If only one module is detected, try swapping the modules between slots or testing them individually.
- **System Instability or Crashes:**
 - This could indicate a faulty module or incompatibility. Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors.
 - Ensure your laptop's BIOS/UEFI is updated to the latest version, as this can sometimes improve memory compatibility.

If problems persist, contact A-Tech customer support or consult a qualified technician.

9. SPECIFICATIONS

Feature	Detail
Product Name	A-Tech 16GB KIT (2 x 8GB) SO-DIMM DDR3 NON-ECC PC3-12800 1600MHz RAM Memory
Model Number	AM127231
Capacity	16GB (2 x 8GB modules)
Memory Type	DDR3 SO-DIMM
Speed	1600MHz (PC3-12800)

ECC Type	NON-ECC Unbuffered
Form Factor	204-Pin SO-DIMM
Voltage	1.5V (Standard for DDR3)
Product Dimensions	4.2 x 3.4 x 0.4 inches
Item Weight	1.2 ounces

10. WARRANTY INFORMATION

A-Tech memory modules come with a **Lifetime Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, or to initiate a warranty claim, please refer to the official A-Tech website or contact customer support.

11. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your A-Tech memory modules, please visit the official A-Tech website or contact their customer service department.

A-Tech Official Website: atechmemory.com

You can also visit the A-Tech Store on Amazon for product information and support resources: [A-Tech Amazon Store](#)

12. LEGAL DISCLAIMER

This item may not be compatible with devices other than those explicitly listed in the compatibility section. If your device is not listed, please verify the capabilities of your system before attempting installation. A-Tech is not responsible for any damage caused by improper installation or use with incompatible systems.

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