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> A-Tech 16GB (2x8GB) DDR3 1600MHz SODIMM RAM Installation Guide for HP Pavilion Laptops

A-Tech ASC999

A-Tech 16GB (2x8GB) DDR3 1600MHz SODIMM RAM Installation Guide

Model: ASC999

1. INTRODUCTION

This manual provides comprehensive instructions for the installation and proper handling of your A-Tech 16GB (2x8GB) DDR3 1600MHz PC3L-12800 SODIMM RAM kit. This memory upgrade is designed to enhance the performance of compatible HP Pavilion laptop and all-in-one models, including 15-n012nr, 15-n080ca, 15-n096sa, 15-n235sa, 15-n250ca, 15-p263TX, 17-g002no, and 23-p155la.

Upgrading your system's memory (RAM) can significantly improve multitasking capabilities and overall system responsiveness. Please read this guide carefully before proceeding with the installation.

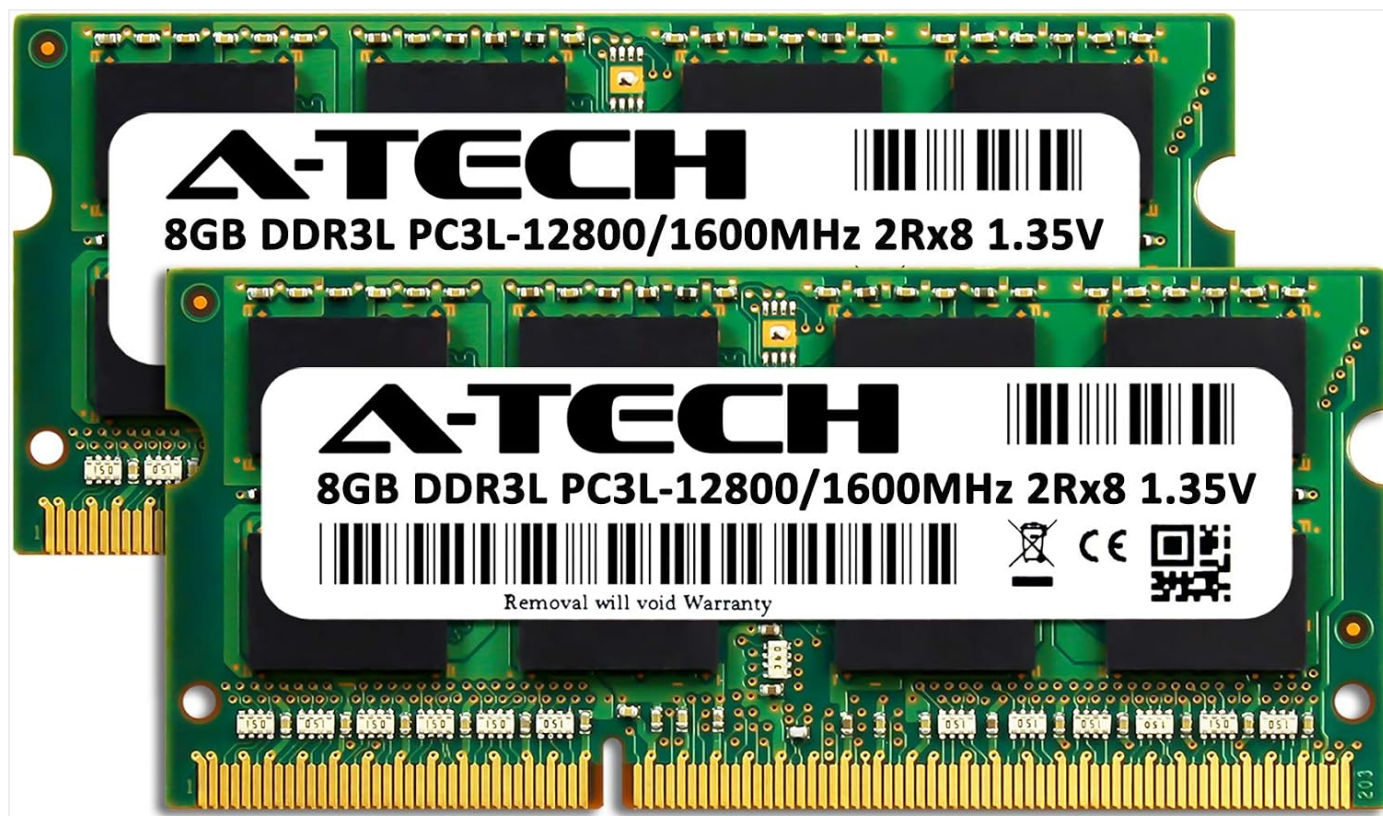


Image 1.1: Two A-Tech 8GB DDR3 SODIMM RAM modules, showing the green PCB and white labels with product specifications.

2. SAFETY INFORMATION

Before beginning any hardware installation, observe the following safety precautions:

- Always power off your computer and disconnect it from the power outlet before opening the chassis.
- 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 components. Consider using an anti-static wrist strap.
- Handle memory modules by their edges to avoid touching the gold connectors or the chips.
- Work in a clean, well-lit area.
- Refer to your computer's official service manual for specific instructions on opening your device and locating memory slots.

3. PACKAGE CONTENTS

Your A-Tech 16GB DDR3 SODIMM RAM kit includes:

- Two (2) A-Tech 8GB DDR3 1600MHz PC3L-12800 SODIMM Memory Modules

Inspect the package contents upon receipt to ensure all items are present and undamaged. If any items are missing or damaged, contact A-Tech customer support.

4. SETUP: RAM INSTALLATION

Follow these general steps to install your A-Tech SODIMM RAM. Specific steps for opening your laptop may vary by model. Always consult your HP Pavilion's service manual for precise instructions.

1. Prepare Your System:

- Shut down your HP Pavilion laptop completely. Do not just put it to sleep or hibernate.
- Disconnect the AC adapter and remove the battery (if user-removable).
- Discharge residual power by holding the power button for 15-20 seconds.
- Ground yourself to prevent electrostatic discharge (ESD).

2. Access Memory Slots:

- Carefully open your laptop's chassis. This usually involves removing screws from the bottom panel. Refer to your laptop's service manual for exact panel removal instructions.
- Locate the SODIMM memory slots. There are typically one or two slots.

3. Remove Existing RAM (if applicable):

- If you are replacing existing RAM, gently push outwards on the small metal clips on either side of the module. The module will pop up at an angle.
- Carefully pull the module out of the slot. Store it in an anti-static bag if you plan to keep it.

4. Install New A-Tech RAM:

- Align the notch on the A-Tech SODIMM module with the key in the memory slot. The module will only fit one way.
- 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 and Test:

- Carefully reattach the bottom panel of your laptop and secure it with screws.
- Reinsert the battery (if removed) and reconnect the AC adapter.
- Power on your laptop. The system should automatically detect the new memory. You can verify the installed RAM in your operating system's system information or BIOS/UEFI settings.



Image 4.1: An A-Tech DDR3 SODIMM module, illustrating the form factor for installation.

5. OPERATING PRINCIPLES

Random Access Memory (RAM) is a type of computer memory that can be accessed randomly, meaning any byte of memory can be accessed without touching the preceding bytes. RAM is used to store working data and machine code that is currently being used by the CPU. The A-Tech 16GB (2x8GB) DDR3 1600MHz SODIMM kit provides a significant increase in your system's temporary data storage capacity.

With more RAM, your computer can run more applications simultaneously, handle larger files, and switch between tasks more smoothly without experiencing slowdowns. The 1600MHz speed ensures efficient data transfer, contributing to overall system responsiveness.



Image 5.1: Visual representation of a performance upgrade, showing a rocket launching from a laptop screen.

6. MAINTENANCE

A-Tech RAM modules are designed for long-term reliability and typically require no specific maintenance once installed. However, general computer maintenance practices can help ensure optimal performance and longevity:

- **Keep your system clean:** Regularly clean your laptop's cooling vents to prevent dust buildup, which can lead to overheating and affect component lifespan.
- **Avoid physical shock:** Protect your laptop from drops or impacts, which can dislodge components or cause damage.
- **Software updates:** Keep your operating system and drivers updated to ensure compatibility and optimal performance with your hardware.
- **Environmental conditions:** Operate your laptop in a well-ventilated area, away from extreme temperatures and humidity.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
System does not boot or displays a blank screen.	RAM modules not seated correctly. Incompatible RAM.	Ensure RAM modules are fully seated and the clips are locked. Verify compatibility with your laptop model using your system's manual. Try installing one module at a time to identify a faulty module or slot.
System boots but shows less RAM than installed.	One or more modules not detected. Operating system limitation.	Reseat all RAM modules. Check your operating system's specifications for maximum RAM support. Ensure your BIOS/UEFI is updated to the latest version.
Frequent system crashes or "Blue Screen of Death" (BSOD).	Faulty RAM module. Incompatible RAM.	Run a memory diagnostic tool (e.g., Windows Memory Diagnostic). Test modules individually to isolate a potentially faulty one. Ensure RAM specifications (DDR3, 1600MHz, 1.35V) match your system's requirements.

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

8. SPECIFICATIONS

Feature	Detail
Brand	A-Tech
Model Number	ASC999

Feature	Detail
RAM Capacity	16 GB (2 x 8 GB Modules)
RAM Type	DDR3 SODIMM
Memory Speed	1600 MHz (PC3L-12800)
Voltage	1.35V (Low Voltage)
Error Correction	Non-ECC Unbuffered
Pin Count	204-Pin
Product Dimensions	2.66 x 1.18 x 0.15 inches
Compatible Devices	HP Pavilion 15-n012nr, 15-n080ca, 15-n096sa, 15-n235sa, 15-n250ca, 15-p263TX, 17-g002no, 23-p155la

9. WARRANTY INFORMATION

A-Tech memory modules are backed by A-Tech's Limited Lifetime Warranty. This warranty covers defects in materials and workmanship for the lifetime of the product. A-Tech ensures dependable and reliable performance through stringent quality control testing.



Image 9.1: A-Tech RAM modules undergoing extensive quality control testing to ensure dependable performance.

For full details regarding warranty terms and conditions, please refer to the official A-Tech website or contact customer support.

10. CUSTOMER SUPPORT

Should you require assistance with installation, troubleshooting, or have any questions regarding your A-Tech RAM, our knowledgeable Tech Team is available to help before and after your purchase. Please visit the official A-Tech website for contact information and support resources.

Online Resources: [A-Tech Store on Amazon](#)

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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.

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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.

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