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› A-Tech 8GB DDR3L RAM Module for HP Presario CQ5814 - Instruction Manual

## A-Tech ATMS321706B25781X1

# A-Tech 8GB DDR3L RAM Module

INSTRUCTION MANUAL FOR HP PRESARIO CQ5814 COMPATIBLE MEMORY (MODEL: ATMS321706B25781X1)

### 1. Product Overview

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This manual provides instructions for the installation and use of your A-Tech 8GB DDR3L PC3L-12800 1600MHz Memory Module. This module is designed to enhance the performance of compatible desktop and workstation motherboards, specifically the HP Presario CQ5814. It operates at 1.35V and is non-ECC.



Image 1.1: A-Tech 8GB DDR3L RAM module in its retail packaging, showing product details and compatibility for HP Presario CQ5814.

A-Tech memory modules are rigorously tested to ensure high quality and dependable performance, providing maximum compatibility and easy installation.

## 2. Setup and Installation

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Before beginning the installation process, please read these instructions carefully. It is recommended to consult your computer's motherboard manual for specific details regarding memory installation and slot configuration.

### 2.1 Safety Precautions

- **Static Electricity:** Always discharge static electricity before handling memory modules. Touch a grounded metal object (like the computer case) 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.
- **Handle with Care:** Hold the memory module by its edges, avoiding contact with the gold connectors or the chips.

## 2.2 Installation Steps

1. **Prepare Your System:** Power down your computer, unplug the power cord, and open the computer case.
2. **Locate Memory Slots:** Identify the DDR3 DIMM slots on your motherboard. Refer to your computer's manual for the correct slot configuration for single module installation or dual-channel setup.
3. **Open Retention Clips:** Gently push the white clips at each end of the memory slot outwards to open them.
4. **Insert Memory Module:** Align the notch on the A-Tech DDR3L module with the key in the DIMM slot. Apply even pressure to both ends of the module until it clicks into place and the retention clips snap shut. Do not force the module.
5. **Secure and Close:** Ensure the module is firmly seated and the clips are locked. Close your computer case and reconnect the power cord.



Image 2.1: A close-up view of an A-Tech DDR3 DIMM module, illustrating the form factor and gold connectors for proper installation.

## 3. Operating Instructions

Once installed, the A-Tech 8GB DDR3L memory module operates automatically with your computer's system. No specific software or drivers are required for its basic function.

### 3.1 Verification

- **BIOS/UEFI Check:** After installation, power on your computer and enter the BIOS/UEFI setup (usually by pressing DEL, F2, or F10 during startup). Verify that the system recognizes the new 8GB memory module and the total installed RAM is correct.
- **Operating System Check:** Once the operating system loads, you can verify the installed memory. For Windows, go to 'System Information' or 'About your PC'. For macOS, go to 'About This Mac'. For Linux, use commands like `free -h` or `cat /proc/meminfo`.

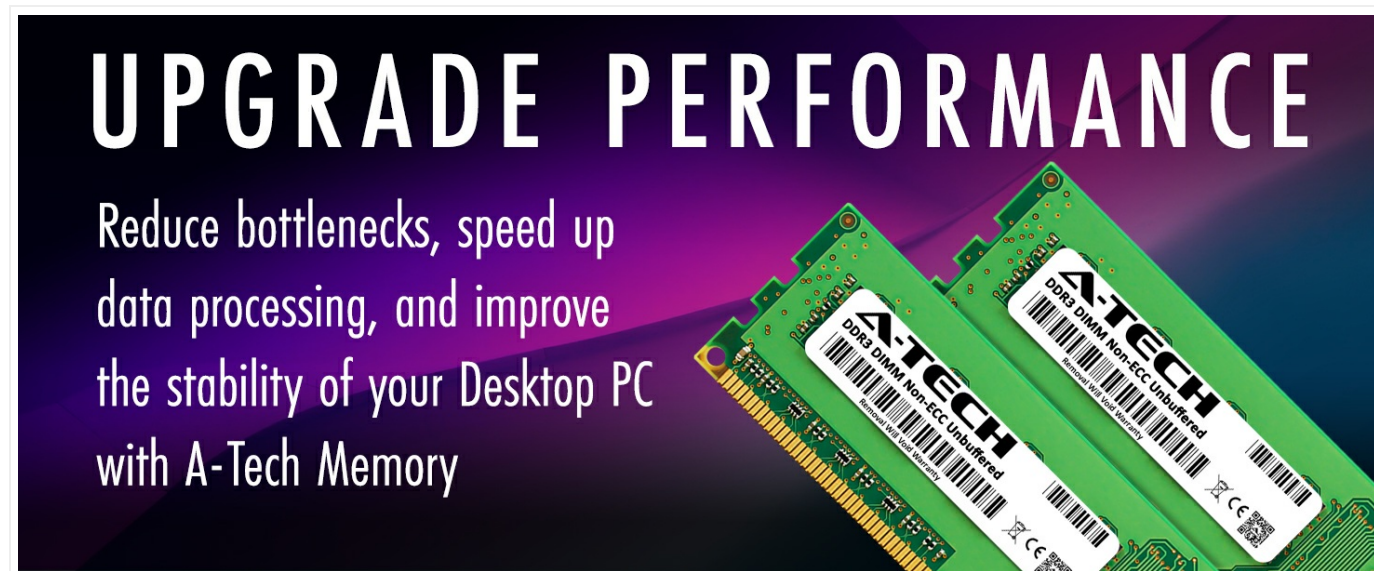


Image 3.1: An illustration of a desktop PC, representing the type of system where A-Tech memory upgrades are typically installed to improve performance.

## 4. Maintenance

Memory modules are generally maintenance-free components. However, proper handling and environmental conditions contribute to their longevity.

- **Cleanliness:** Keep the interior of your computer case clean and free of dust to ensure proper airflow and prevent overheating, which can affect all components, including RAM.
- **Handling:** If you need to remove or re-install the module, always follow the safety precautions outlined in Section 2.1. Avoid touching the gold contacts.
- **No User-Serviceable Parts:** The memory module itself contains no user-serviceable parts. Do not attempt to disassemble or repair it.

## 5. Troubleshooting

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

- **System Not Booting / No Display:**
  - Ensure the memory module is fully seated in its slot. Remove and re-insert it, ensuring the clips snap into place.
  - Try installing only the new A-Tech module (if you have other modules) to isolate the issue.
  - If installing multiple modules, try them one at a time in different slots.
- **Incorrect RAM Detected:**
  - Verify the module is correctly seated.
  - Check your motherboard's BIOS/UEFI settings to ensure the memory is recognized.
  - Ensure your motherboard supports the DDR3L (1.35V) standard and the 1600MHz speed. While this module is dual-voltage (1.35V/1.5V), compatibility with your motherboard's specific voltage requirements is important.
- **System Instability / Blue Screens:**
  - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
  - Ensure your motherboard's BIOS is up to date.

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

## 6. Specifications

| Feature          | Specification                                        |
|------------------|------------------------------------------------------|
| Module Type      | DDR3L DIMM                                           |
| Capacity         | 8GB (Single Module)                                  |
| Speed            | 1600MHz (PC3L-12800)                                 |
| Voltage          | 1.35V (Dual Voltage: 1.35V / 1.5V)                   |
| Error Correction | Non-ECC                                              |
| Rank             | 2Rx8                                                 |
| Pin Count        | 240-pin                                              |
| Compatibility    | HP Presario CQ5814 Desktop & Workstation Motherboard |
| Model Number     | ATMS321706B25781X1                                   |

## 7. Warranty and Support

A-Tech stands behind the quality of its products.

### 7.1 Lifetime Warranty

This A-Tech memory module is backed by a **Lifetime Warranty**. This warranty covers defects in materials and workmanship for the life of the product. Please retain your proof of purchase for warranty claims.

### 7.2 Technical Support

For technical assistance, installation guidance, or troubleshooting, A-Tech offers **Toll-Free Technical Support**. Please visit the official A-Tech website or refer to your product packaging for contact information.



Image 7.1: A-Tech memory modules undergoing extensive quality control testing, ensuring dependable and reliable performance.

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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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