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 - > A-Tech 4GB DDR4 SODIMM Memory Module User Manual

A-Tech SNPKN2NMC/4G-ATC

A-Tech 4GB DDR4 SODIMM Memory Module User Manual

Brand: A-Tech | Model: SNPKN2NMC/4G-ATC

PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your A-Tech 4GB DDR4 2666MHz PC4-21300 Non-ECC SODIMM memory module. This module is designed to enhance the performance of compatible laptop and All-in-One (AIO) systems, including the Dell OptiPlex 7440 AIO.

Upgrading your system's memory can significantly improve multitasking capabilities, application loading times, and overall system responsiveness. This A-Tech module is rigorously tested to ensure high quality and dependable performance.



LAPTOP MEMORY

4GB Module

DDR4 2666 PC4-21300

1Rx16 1.2V SODIMM



L I F E T I M E W A R R A N T Y



Image: A-Tech 4GB DDR4 SODIMM memory module in its retail packaging, showing the module and product label.

COMPATIBILITY

This A-Tech 4GB DDR4 SODIMM module is specifically designed for use in laptops, notebooks, and select All-in-One (AIO) computers. It is compatible with systems requiring DDR4 2666MHz PC4-21300 Non-ECC Unbuffered SODIMM memory, such as the Dell OptiPlex 7440 AIO.

Important Note: This module is a Non-ECC Laptop SODIMM and is **NOT COMPATIBLE WITH SERVER SYSTEMS** or desktop computers that require DIMM (larger form factor) memory. Always refer to your system's manual to confirm the supported RAM specifications (type, speed, and form factor) before installation.

COMPATIBILITY

Designed for Laptop, Mini PC, and AIO systems
(**NOT** compatible with Desktop PC/Computers, please refer to your system manual to confirm compatibility)

Image: Illustrates the compatibility of A-Tech memory with laptops, mini PCs, and AIO systems.

INSTALLATION GUIDE

Before beginning the installation process, ensure you have read and understood all instructions. It is highly recommended to consult your computer's specific service manual for detailed instructions on accessing and replacing memory modules, as procedures vary by model.

Safety Precautions:

- **Disconnect Power:** Always power off your computer and disconnect it from the power outlet before opening the chassis.
- **Static Electricity:** Electronic components are sensitive to static electricity. 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 module. Consider using an anti-static wrist strap.
- **Handle with Care:** Hold the memory module by its edges, avoiding contact with the gold connectors or the chips.



Image: A close-up view of the A-Tech 4GB DDR4 SODIMM memory module, showing its components and label.

Installation Steps (General):

1. **Prepare Your System:** Power down your computer completely and unplug all cables.
2. **Access Memory Slots:** Open your computer's chassis or access panel to expose the memory slots. Refer to your system's manual for specific instructions.
3. **Remove Existing Modules (if applicable):** If replacing existing memory, gently push the retention clips on both sides of the SODIMM slot outwards. The module will pop up at an angle. Carefully pull it out of the slot.
4. **Install New Module:** Align the notch on the A-Tech SODIMM module with the key in the memory slot. Insert the module at a 45-degree angle into the slot.
5. **Secure Module:** Gently push down on the module until the retention clips on both sides snap into place, securing the module horizontally. Ensure it is seated firmly and evenly.
6. **Reassemble:** Close the chassis or access panel and reconnect all cables.

VERIFYING INSTALLATION

After installation, power on your computer. The system should automatically detect the new memory. You can verify the installed RAM in your operating system:

- **Windows:** Right-click on "This PC" or "My Computer" and select "Properties" (or go to Settings > System > About). The "Installed RAM" or "Installed memory (RAM)" value should reflect the total memory, including your new A-Tech module.
- **macOS:** Click the Apple menu (🍏) > "About This Mac". The "Memory" section will display the total installed RAM.
- **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.

CARE AND HANDLING

To ensure the longevity and optimal performance of your A-Tech memory module, follow these guidelines:

- **Storage:** Store the module in its original anti-static packaging when not in use.
- **Environment:** Keep the module away from extreme temperatures, humidity, and direct sunlight.
- **Cleaning:** Do not attempt to clean the gold contacts with abrasive materials or solvents. If necessary, use a soft, lint-free cloth.
- **Physical Damage:** Avoid bending, dropping, or applying excessive force to the module.

TROUBLESHOOTING COMMON ISSUES

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

- **System Does Not Boot / No Display:**
 - Ensure the module is fully seated in the slot. Re-seat the module firmly.

- Verify the module's notch aligns correctly with the slot's key.
- Try installing only the new A-Tech module (if you have multiple) to isolate the issue.
- Check your system's manual for specific memory seating guidelines (e.g., which slots to populate first).

• **Incorrect RAM Capacity Detected:**

- Ensure your operating system is 64-bit to fully utilize more than 4GB of RAM.
- Verify that your system's motherboard supports the total amount of RAM installed.
- Check if the module is properly seated.

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

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic).
- Ensure your system's BIOS/UEFI is up to date.
- Confirm compatibility with any existing memory modules if you are mixing brands or types (though mixing is generally not recommended).

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

TECHNICAL SPECIFICATIONS

Feature	Specification
Module Capacity	4GB (1 x 4GB)
Memory Type	DDR4 SODIMM
Speed	2666 MHz (PC4-21300 / PC4-2666V-S)
Pin Count	260-Pin
Error Correction	Non-ECC (Unbuffered SO-DIMM)
Rank	1Rx16 (Single Rank x16)
Voltage	1.2V
Compatible Devices	Laptops, All-in-One (AIO) PCs, Mini PCs
Model Number	SNPKN2NMC/4G-ATC

WARRANTY AND SUPPORT

A-Tech stands behind the quality of its products. This memory module is backed by a**Lifetime Warranty**, ensuring peace of mind for your investment.

For any technical assistance, questions, or warranty claims, A-Tech offers complimentary United States based Tech

Support. Please have your product model number and purchase information ready when contacting support.

Contact Information:

A-Tech Official Website: atechmemory.com

Product Information QR Code: For quick access to product details and support resources, scan the QR code found on the product packaging or visit atechmemory.com/pages/qr.



Image: Highlights A-Tech's commitment to reliability through extensive quality control testing.

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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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