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› A-Tech 16GB DDR4 2666 MHz SODIMM Memory Upgrade Instruction Manual for Apple iMac & Mac mini

A-Tech ATMAC16G1D4S2666NN12V

A-Tech 16GB DDR4 2666 MHz SODIMM Memory Upgrade Instruction Manual

Model: ATMAC16G1D4S2666NN12V | Brand: A-Tech

1. PRODUCT OVERVIEW

The A-Tech 16GB DDR4 2666 MHz SODIMM memory module is designed to enhance the performance of compatible Apple iMac and Mac mini systems. This module operates at 1.2V and is Non-ECC Unbuffered, featuring a 260-Pin SO-DIMM form factor. Upgrading your system's memory can improve multitasking capabilities and overall system responsiveness.



Image 1.1: A-Tech 16GB DDR4 2666 MHz SODIMM Memory Module. This image displays the memory module with its label indicating capacity, type, and speed.

2. COMPATIBILITY

This A-Tech 16GB DDR4 2666 MHz SODIMM is compatible with specific Apple iMac and Mac mini models. Please verify your system's model ID and specifications before installation.

Compatible iMac Models:

- **iMac (Retina 5K, 27-inch, 2020):**
 - Model IDs: iMac20,1, iMac20,2
 - Processors: 3.1GHz 6-Core i5, 3.3GHz 6-Core i5, 3.8GHz 8-Core i7, 3.6GHz 10-Core i9
 - RAM Slots: 4 | Max RAM: 128GB (4x32GB)
- **iMac (Retina 5K, 27-inch, 2019):**

- Model IDs: iMac19,1
- Processors: 3.0GHz 6-Core i5, 3.1GHz 6-Core i5, 3.7GHz 6-Core i5, 3.6GHz 8-Core i9
- RAM Slots: 4 | Max RAM: 128GB (4x32GB)

- **iMac (Retina 4K, 21.5-inch, 2019):**

- Model IDs: iMac19,2
- Processors: 3.6GHz 4-Core i3, 3.0GHz 6-Core i5, 3.2GHz 6-Core i7
- RAM Slots: 2 | Max RAM: 64GB (2x32GB)

Compatible Mac mini Models:

- **Mac mini (2018 & 2020, non-M1 models):**

- Model ID: Macmini8,1
- Processors: 3.6GHz Quad-Core i3, 3.0GHz 6-Core i5, 3.2GHz 6-Core i7
- RAM Slots: 2 | Max RAM: 64GB (2x32GB)

Compatibility Chart

Mac Type	1x8GB	2x8GB	4x8GB	1x16GB	2x16GB	4x16GB	1x32GB	2x32GB	4x32GB
iMac 2019 (21.5-inch, Retina 4K) iMac19,2 (A2116) MRT32LL/A, MRT42LL/A, BTO 3.6GHz 4-Core i3, 3.0GHz 6-Core i5, 3.2GHz 6-Core i7	✓	✓	✗	✓	✓	✗	✗	✗	✗
iMac 2019 (27-inch, Retina 5K) iMac19,1 (A2115) MRQY2LL/A, MRR02LL/A, MRR12LL/A, BTO 3.0GHz 4-Core i5, 3.1GHz 6-Core i5, 3.7GHz 6-Core i5, 3.6GHz 8-Core i9	✓	✓	✓	✓	✓	✓	✓	✓	✓
iMac 2020 (27-inch, Retina 5K) iMac20,1; iMac20,2 (A2115) MXWT2LL/A, MXWU2LL/A, MXWV2LL/A, BTO 3.1GHz 6-Core i5, 3.3GHz 6-Core i5, 3.8GHz 8-Core i7, 3.6GHz 10-Core i9	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mac mini 2018/2020 (Non M1 Models) Macmini8,1 (A1993) MRTR2LL/A, MRTT2LL/A, MXNF2LL/A, MXNG2LL/A, BTO 3.6GHz 4-Core i3, 3.0GHz 6-Core i5, 3.2GHz 6-Core i7	✓	✓	✗	✓	✓	✗	✓	✓	✗

Image 2.1: A detailed compatibility chart showing supported Mac models and memory configurations. Green checkmarks indicate compatibility, while red crosses indicate incompatibility for specific configurations.

3. SETUP AND INSTALLATION

Before beginning the installation process, ensure your computer is completely powered off and unplugged from all power sources. It is recommended to work on a clean, static-free surface. Refer to your Apple device's official documentation for specific memory access procedures, as steps may vary slightly between models.

General Installation Steps (iMac/Mac mini):

1. **Power Down and Disconnect:** Shut down your computer completely. Disconnect the power cord and all peripheral cables.
2. **Access Memory Compartment:**
 - **For iMac (27-inch models):** Lay the iMac screen-down on a soft, clean surface. Locate the small button above the power port on the back of the display. Press this button to release the memory compartment cover.
 - **For Mac mini:** Consult your Mac mini's specific model instructions for accessing the memory.
3. **Remove Existing Modules (if applicable):** Gently push the ejector clips on either side of the existing memory modules to release them. Carefully pull the modules straight out of their slots.
4. **Install New A-Tech Modules:** Align the notch on the A-Tech memory module with the key in the memory slot. Insert the module firmly into the slot until the ejector clips snap into place, securing the module. Ensure the module is fully seated.
5. **Replace Cover:** Reattach the memory compartment cover.
6. **Reconnect and Power On:** Reconnect all cables and the power cord. Power on your computer.

Important Note: After installing new memory, your computer may take a minute or two longer than usual to boot up for the first time. This is normal as the system recognizes and configures the new memory. Do not interrupt this process.



Image 3.1: Top view of the A-Tech 16GB DDR4 SODIMM module, highlighting the gold contacts and the notch for proper alignment during installation.

4. OPERATING INSTRUCTIONS

Once the A-Tech memory module is successfully installed, your system will automatically detect and utilize the increased RAM. No special software or drivers are required for operation.

Verifying Installation:

To confirm the new memory is recognized:

1. Click the Apple menu (🍏) in the top-left corner of your screen.
2. Select **"About This Mac"**.
3. In the overview window, click on **"Memory"** or **"System Report..."** and then navigate to the Memory section.

The total installed memory should reflect the new capacity (e.g., 16GB, 32GB, 64GB, or 128GB depending on your configuration).

5. MAINTENANCE

A-Tech memory modules are designed for long-term, reliable performance and typically require no user maintenance. Keep the memory compartment clean and free of dust to ensure optimal airflow and prevent overheating.

6. TROUBLESHOOTING

Common Issues and Solutions:

- **System Does Not Boot / Black Screen:**
 - Ensure all memory modules are fully seated in their slots. Remove and re-insert them firmly.
 - Verify compatibility with your specific Mac model using the compatibility chart (Image 2.1) and your system's documentation.
 - Try booting with only the original memory modules to confirm the system functions correctly without the new modules.
- **Incorrect Amount of RAM Reported:**
 - Double-check that all modules are correctly installed and fully seated.
 - Ensure you have installed the correct type and speed of RAM for your system.
 - Some systems may require a few reboots to properly register new memory.
- **System Instability / Crashes:**
 - This can sometimes indicate a faulty memory module or improper installation. Try testing modules individually if you installed multiple.
 - Ensure your system's firmware (BIOS/UEFI) is up to date.

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

7. SPECIFICATIONS

Feature	Detail
Module Capacity	16GB (1 x 16GB)

Feature	Detail
Memory Type	DDR4 SODIMM
Speed	2666 MHz / 2667 MHz (PC4-21300 / PC4-2666V)
Pin Count	260-Pin
Error Correction	Non-ECC Unbuffered
Voltage	1.2V
Dimensions (LxWxH)	2.74 x 1.18 x 0.15 inches (69.60 x 30 x 3.81 mm)
Model Number	ATMAC16G1D4S2666NN12V

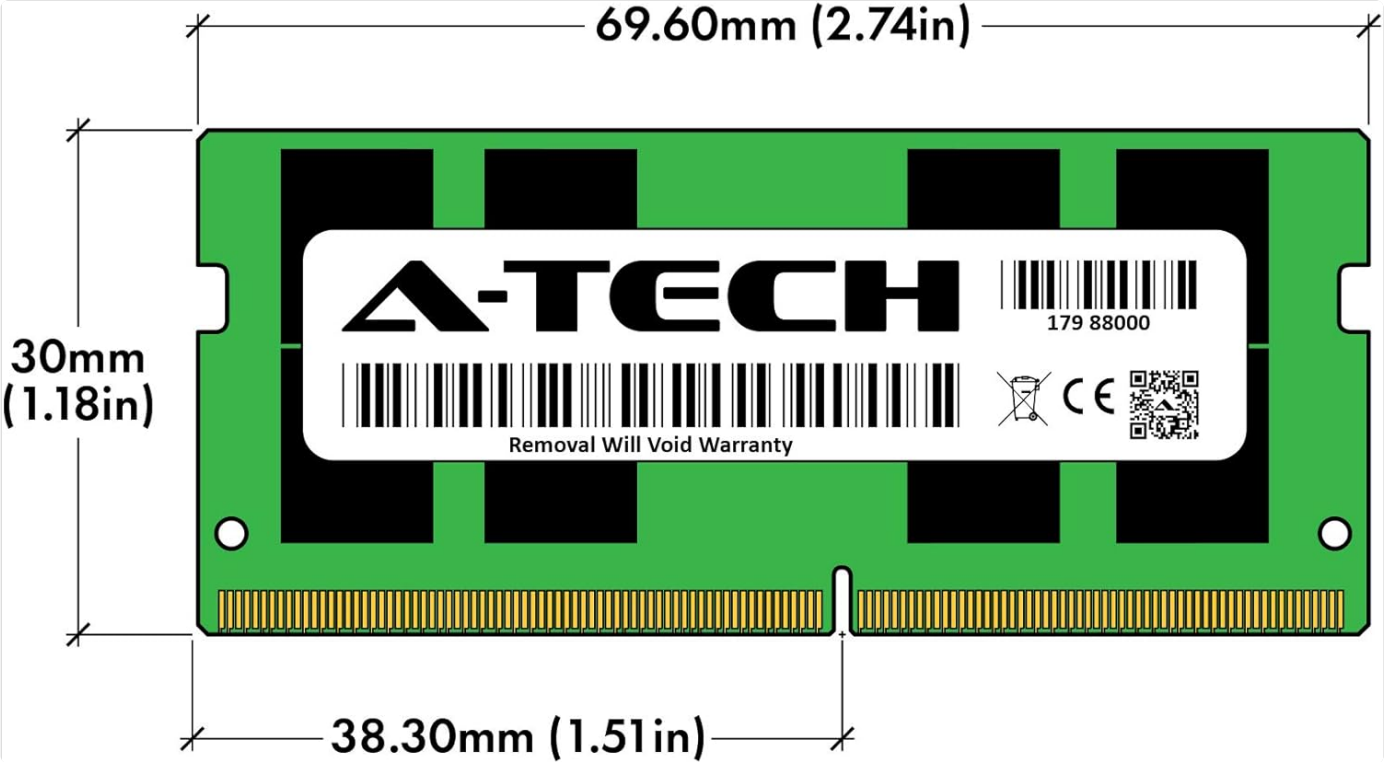


Image 7.1: Diagram showing the physical dimensions of the A-Tech 16GB DDR4 SODIMM memory module.

8. WARRANTY AND SUPPORT

A-Tech stands behind the quality of its products.

- **Lifetime Warranty:** A-Tech provides a Lifetime Warranty for all orders.
- **Technical Support:** Complimentary United States-based Technical Support is available before, during, and after your purchase.

For warranty claims or technical assistance, please visit the official A-Tech website or contact their support team directly. You can find more information at atechmemory.com.

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