

A-Tech APV167

A-Tech 32GB DDR4 SO-DIMM Memory Upgrade Kit User Manual

Model: APV167

INTRODUCTION

This manual provides essential information for the installation and proper use of your A-Tech 32GB (2x16GB) DDR4 2666MHz PC4-21300 Non ECC SO-DIMM memory upgrade kit. This kit is specifically designed to enhance the performance of compatible ASRock IMB-194-L and IMB-194-D systems by increasing their Random Access Memory (RAM) capacity.



Image: Two A-Tech 16GB DDR4 SO-DIMM memory modules, each individually packaged in clear plastic cases, displaying product labels with "A-TECH LAPTOP MEMORY" and specifications like "32GB (2x16GB) DDR4 2666MHz PC4-21300 SODIMM NON-ECC 1.2V".

COMPATIBILITY

This memory kit is designed for Laptop, Mini PC, and All-in-One (AIO) systems. It is specifically compatible with ASRock IMB-194-L and IMB-194-D models. It is **NOT** compatible with Desktop PC/Computers. Always refer to your system's manual to confirm memory compatibility and maximum supported capacity before installation.

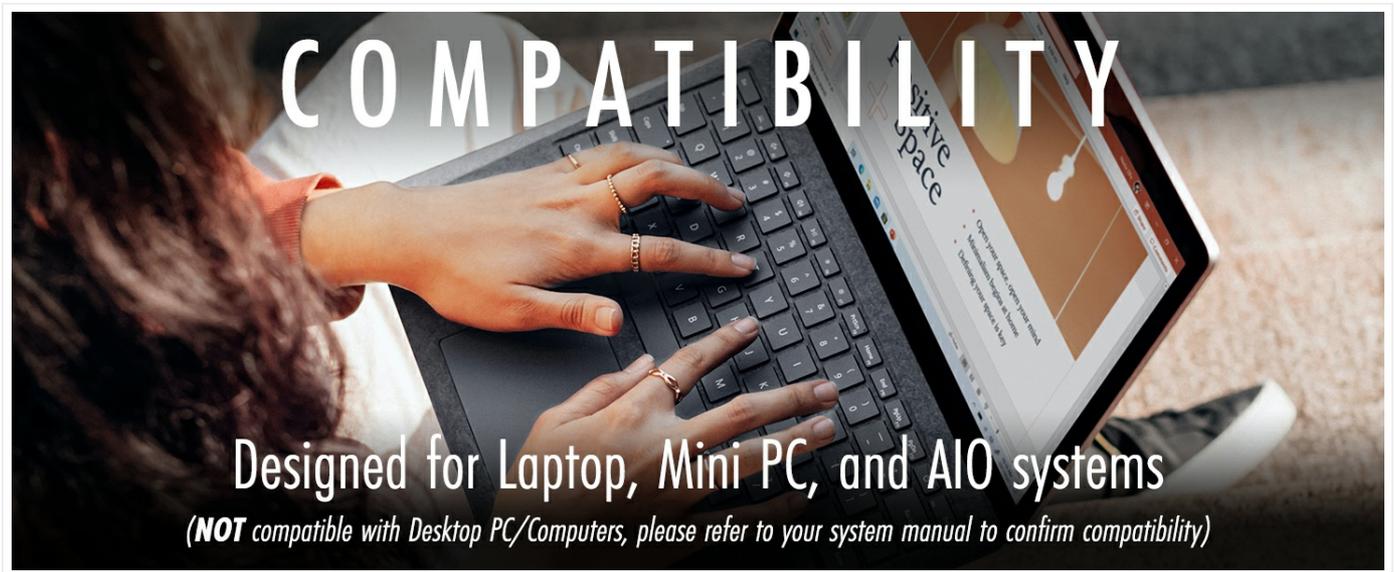


Image: A person typing on a laptop, illustrating the product's compatibility with laptop, mini PC, and AIO systems. Text overlay emphasizes checking system manual for compatibility and notes non-compatibility with desktop PCs.

SETUP AND INSTALLATION

Pre-Installation Precautions

- **Static Electricity:** Electronic components are sensitive to static discharge. Before handling the memory modules, discharge any static electricity from your body by touching a grounded metal object (e.g., an unpainted metal part of your computer chassis). Consider using an anti-static wrist strap.
- **Power Off:** Ensure your system is completely powered off and unplugged from the wall outlet. Remove the battery if it's a laptop.
- **System Manual:** Consult your system's specific manual for detailed instructions on accessing memory slots and proper memory seating.

Installation Steps

1. **Access Memory Slots:** Carefully open your laptop or system chassis to expose the memory slots. This usually involves removing a back panel or keyboard.
2. **Remove Existing Modules (if applicable):** If you are replacing existing memory, gently push the small clips on both sides of the SO-DIMM slot outwards. The module will pop up at an angle. You can then pull it out.
3. **Insert New Modules:** Align the notch on the A-Tech SO-DIMM module with the key in the memory slot. Insert the module at a 45-degree angle into the slot.
4. **Secure Module:** Gently push the module down until the clips on both sides snap into place, securing the module horizontally. Do not force the module.
5. **Repeat:** If installing both modules, repeat the process for the second module.
6. **Reassemble:** Carefully close your system, ensuring all panels and screws are properly reinstalled.
7. **Power On:** Reconnect the power and turn on your system. The system should automatically detect the new memory.



Image: Two A-Tech 16GB DDR4 PC4-21300/2666MHz 1.2V SODIMM memory modules, removed from their packaging, showing the green PCB and black memory chips with white labels indicating "A-TECH" and module specifications.

Note: A 64-bit Operating System is required to utilize more than 4GB of memory. If your system has a 32-bit OS, it will only recognize up to approximately 4GB of RAM, regardless of the physical memory installed.

OPERATING INFORMATION

Once installed, the A-Tech memory modules operate automatically within your system. The system's BIOS/UEFI will detect the new memory and configure it for optimal performance. Faster memory will clock down to run at optimal speed depending on the processor model installed and the system's capabilities.

MAINTENANCE

A-Tech memory modules are designed for long-term reliability and typically require no ongoing maintenance. To ensure continued performance:

- Avoid exposing the modules to extreme temperatures or humidity.
- Do not attempt to clean the gold contacts with abrasive materials. If cleaning is necessary, use a soft, lint-free cloth and isopropyl alcohol.
- Handle modules by the edges to prevent touching the chips or gold contacts.

TROUBLESHOOTING

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

- **System Not Booting/No Display:**
 - Ensure the memory modules are fully seated in their slots. Gently press down on both ends of each module until the clips snap into place.
 - Verify that the notch on the module aligns correctly with the key in the slot.

- Try installing one module at a time to identify if one is faulty.
- Clear the CMOS (Complementary Metal-Oxide-Semiconductor) settings of your system (refer to your system manual for instructions).

- **Incorrect Memory Size Detected:**

- Confirm your operating system is 64-bit. A 32-bit OS cannot utilize more than 4GB of RAM.
- Check your system's BIOS/UEFI settings to ensure the memory is recognized correctly.
- Ensure all modules are properly seated.

- **System Instability/Crashes:**

- Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
- Ensure your system's BIOS/UEFI is updated to the latest version, as this can improve memory compatibility.

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

SPECIFICATIONS

Feature	Detail
RAM Capacity	32GB (2x 16GB Modules)
Memory Type	DDR4 SO-DIMM (260-Pin)
Memory Speed	2666 MHz (PC4-21300)
Error Correction	Non-ECC Unbuffered
Voltage	1.2V
Compatible Devices	ASRock IMB-194-L / IMB-194-D
Product Dimensions (LxWxH)	2.74 x 1.18 x 0.15 inches (69.60 x 30 x 3.81 mm)
Model Number	APV167

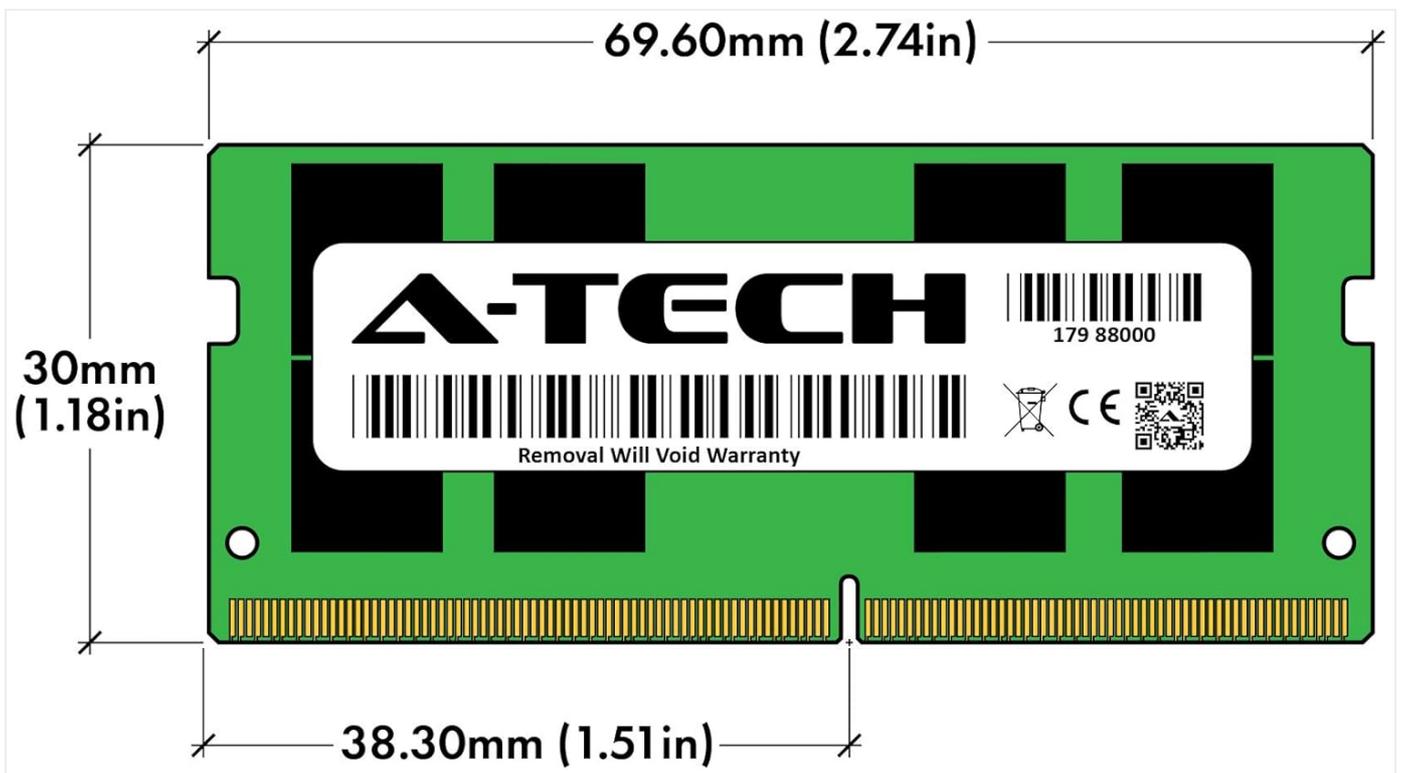


Image: A technical diagram illustrating the precise dimensions of a single A-Tech SO-DIMM memory module, showing a length of 69.60mm (2.74in) and a width of 30mm (1.18in).

WARRANTY INFORMATION

A-Tech provides a **Lifetime Warranty** for all orders. This warranty covers defects in materials and workmanship for the lifetime of the product. For detailed terms and conditions, please refer to the official A-Tech website or contact customer support.

SUPPORT AND CONTACT

A-Tech offers complimentary United States based Technical Support to assist you before, during, and after your purchase.

- **Online Resources:** For additional information, FAQs, and support, visit the A-Tech website: atechmemory.com
- **QR Code Support:** Some products may include a QR code for quick access to support resources. You can find more information at: atechmemory.com/pages/qr
- **Contact Support:** Refer to the A-Tech website for direct contact methods such as phone numbers or email support.