

A-Tech ARU922

A-Tech 128GB DDR5 4800MHz ECC RDIMM Server Memory Upgrade Kit User Manual

Model: ARU922

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your A-Tech 128GB (4x32GB) DDR5 4800MHz PC5-38400 ECC Registered RDIMM Server Memory Upgrade Kit. This memory kit is designed to enhance the performance and stability of compatible server systems by expanding their memory capacity and improving data processing capabilities.

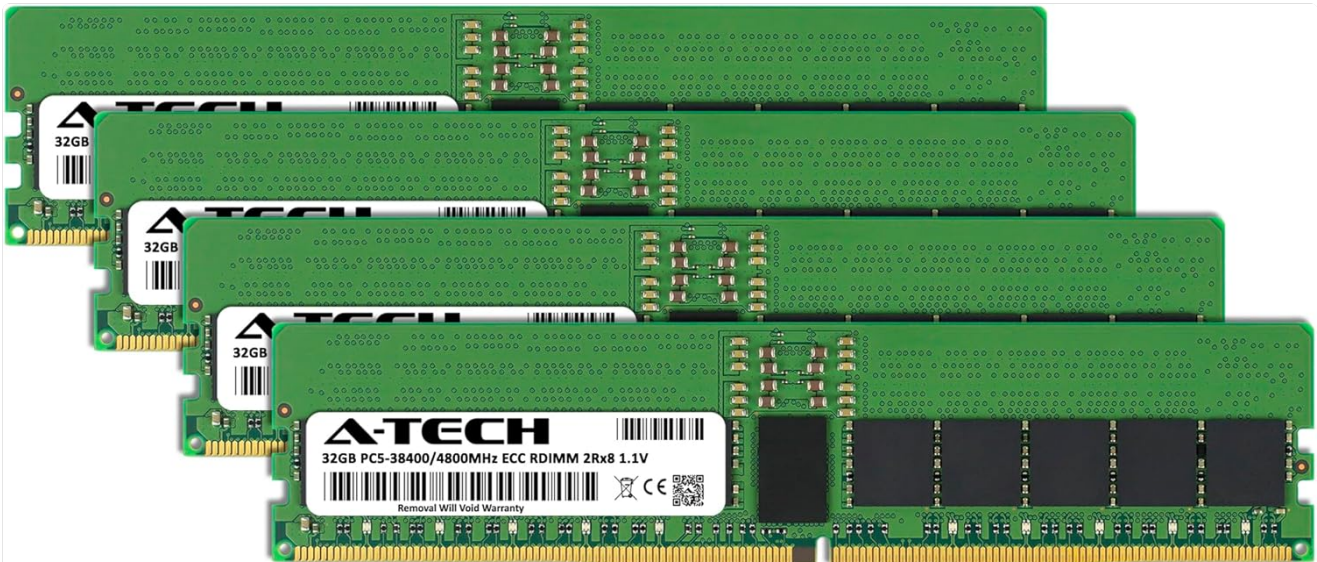


Image: Four A-Tech 32GB DDR5 ECC RDIMM server memory modules, part of the 128GB kit.

PRODUCT FEATURES

- **Capacity:** 128 GB Kit (4 x 32 GB Modules)
- **Memory Type:** DDR5 4800 MHz (PC5-38400 / PC5-4800)
- **Form Factor:** DDR5 DIMM (288-Pin)

- **Configuration:** 2Rx8 (EC8) ECC Registered
- **Voltage:** 1.1V - DDR5 Standard Voltage
- **Compatibility:** Specifically designed for ASRock Rack Server models: GENOAD8HM3, SP2C741D32TM3, SPC741D8-2L2T/BCM, SPC741D8HM3, SPC741D8UD-2T/X550.
- **Performance:** Improves system performance by expanding RAM capacity, reducing bottlenecks, and increasing workload capacity.
- **Quality:** All A-Tech memory modules undergo stringent quality control testing for dependable and reliable performance.

COMPATIBILITY

This A-Tech memory kit is engineered for specific server and workstation environments that support DDR5 ECC RDIMM (288-Pin) memory. It is crucial to verify your system's compatibility before installation.



COMPATIBILITY

Designed for Servers and Workstations compatible with
DDR5 ECC RDIMM (288-Pin) memory

Image: Server racks, illustrating the intended server environment for this memory.

Important Note: This memory is **NOT COMPATIBLE** with standard desktop or laptop PCs/computers. Attempting to install this memory in an incompatible system may result in system instability or damage.



NOT COMPATIBLE for Desktop and Laptop PC/Computers

Image: Visual representation showing that the memory is not compatible with desktop or laptop computers.

SETUP AND INSTALLATION

Installing RAM is a straightforward process, but it requires careful handling to prevent damage to the modules or your server. Always refer to your server's specific manual for detailed instructions on memory installation, seating, and channel guidelines, as procedures can vary between server models.

1. Preparation:

- Power down your server completely and disconnect all power cables.
- Ground yourself to discharge any static electricity. Use an anti-static wrist strap if available.
- Open the server chassis according to the manufacturer's instructions.

2. **Locate Memory Slots:** Identify the DIMM slots on your server's motherboard. Consult your server manual for the correct slot population order, especially when installing multiple modules.

3. Install Modules:

- Gently push open the clips at both ends of the DIMM slot.

- Align the memory module with the slot, ensuring the notch on the module matches the key in the slot. Do not force the module.
- Press down firmly and evenly on both ends of the module until the clips snap into place, securing the module.

4. Close and Power On:

- Once all modules are installed, close the server chassis.
- Reconnect power cables and power on the server.
- The system should automatically detect the new memory. Verify the installed memory in your server's BIOS/UEFI settings or operating system.

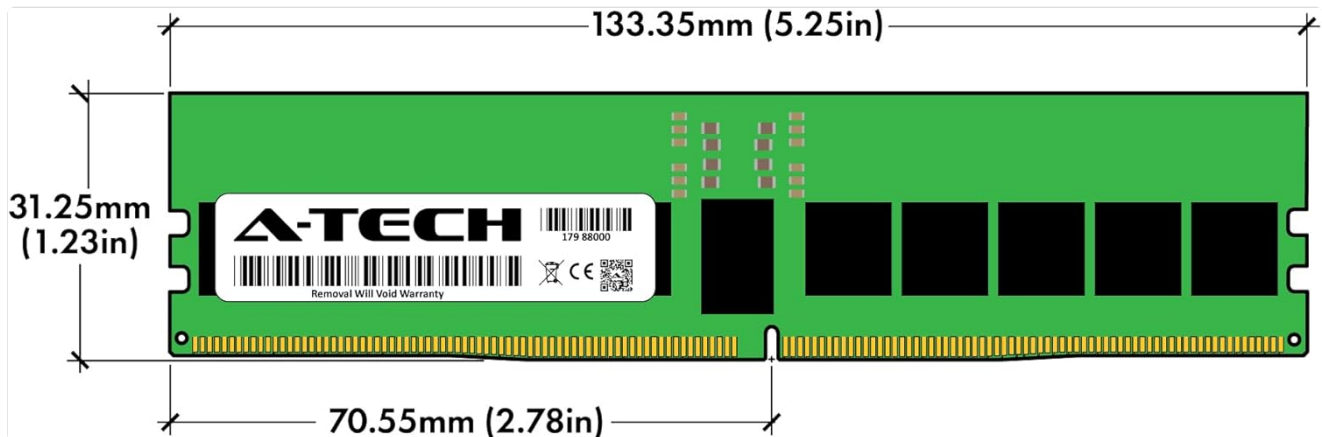


Image: Dimensional diagram of a single A-Tech DDR5 memory module, showing length and height measurements.

OPERATING

Once properly installed, the A-Tech DDR5 ECC RDIMM memory operates automatically within your server system. It functions to store and retrieve data for the CPU, enabling faster application loading, smoother multitasking, and improved overall system responsiveness. No specific user interaction is required for the memory modules themselves after installation.



BOOST PERFORMANCE

Speed up loading times, reduce bottlenecks, and increase workload capacity

Image: A user working on a multi-monitor setup, symbolizing the enhanced performance and productivity gained from memory upgrades.

MAINTENANCE

A-Tech DDR5 ECC RDIMM memory modules are designed for long-term reliability and typically require no user maintenance. Keep the server environment clean and well-ventilated to ensure optimal operating conditions for all components, including memory.

- **Dust Removal:** Periodically clean the interior of your server to prevent dust buildup, which can impede airflow and heat dissipation. Use compressed air for this purpose.
- **Environmental Control:** Ensure your server operates within recommended temperature and humidity ranges to prevent component degradation.

TROUBLESHOOTING

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

1. No Boot/Black Screen:

- Ensure the memory modules are fully seated in their slots. Re-seat them firmly.
- Verify that the modules are installed in the correct slots according to your server's motherboard manual.
- Check for any bent or damaged pins on the memory modules or slots.
- If you installed multiple modules, try booting with only one module at a time to identify a potentially faulty stick.

2. Incorrect Memory Detected:

- Check your server's BIOS/UEFI settings to confirm the detected memory amount.
- Ensure your server's motherboard BIOS is updated to the latest version, as this can improve memory compatibility.
- Confirm that your server model supports the total memory capacity and speed of the installed kit.

3. System Instability/Crashes:

- Run a memory diagnostic tool (e.g., MemTest86) to check for errors.
- Ensure proper server cooling to prevent overheating, which can cause instability.

If issues persist after these steps, contact A-Tech Technical Support for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	A-Tech
Model Name	ARU922
Computer Memory Size	128 GB (4x32GB)
RAM Memory Technology	DDR5
Memory Speed	4800 MHz
Data Transfer Rate	38400 Megabytes Per Second
Form Factor	DIMM
Number of Pins	288
Additional Features	ECC Registered (EC8), 2Rx8
Voltage	1.1 Volts
Column Address Strobe Latency	40
Compatible Devices	Server (ASRock Rack GENOAD8HM3, SP2C741D32TM3, SPC741D8-2L2T/BCM, SPC741D8HM3, SPC741D8UD-2T/X550)

WARRANTY AND SUPPORT

A-Tech stands behind the quality of its products. This memory kit is backed by A-Tech's **Limited Lifetime Warranty**, covering defects in materials and workmanship.



Image: A-Tech Limited Lifetime Warranty logo, signifying product assurance.

For technical assistance, warranty claims, or any questions regarding your A-Tech memory, please contact our knowledgeable Tech Team. Contact information can typically be found on the A-Tech official website or through your purchase platform.

You can visit the A-Tech Store for more information: [A-Tech Components Store](#)

ADDITIONAL INFORMATION

This product is from a small business brand. Your support contributes to small business growth.