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A-Tech ARU849

A-Tech 256GB DDR5 4800MHz ECC Registered Server Memory Upgrade Manual

Model: ARU849

1. INTRODUCTION

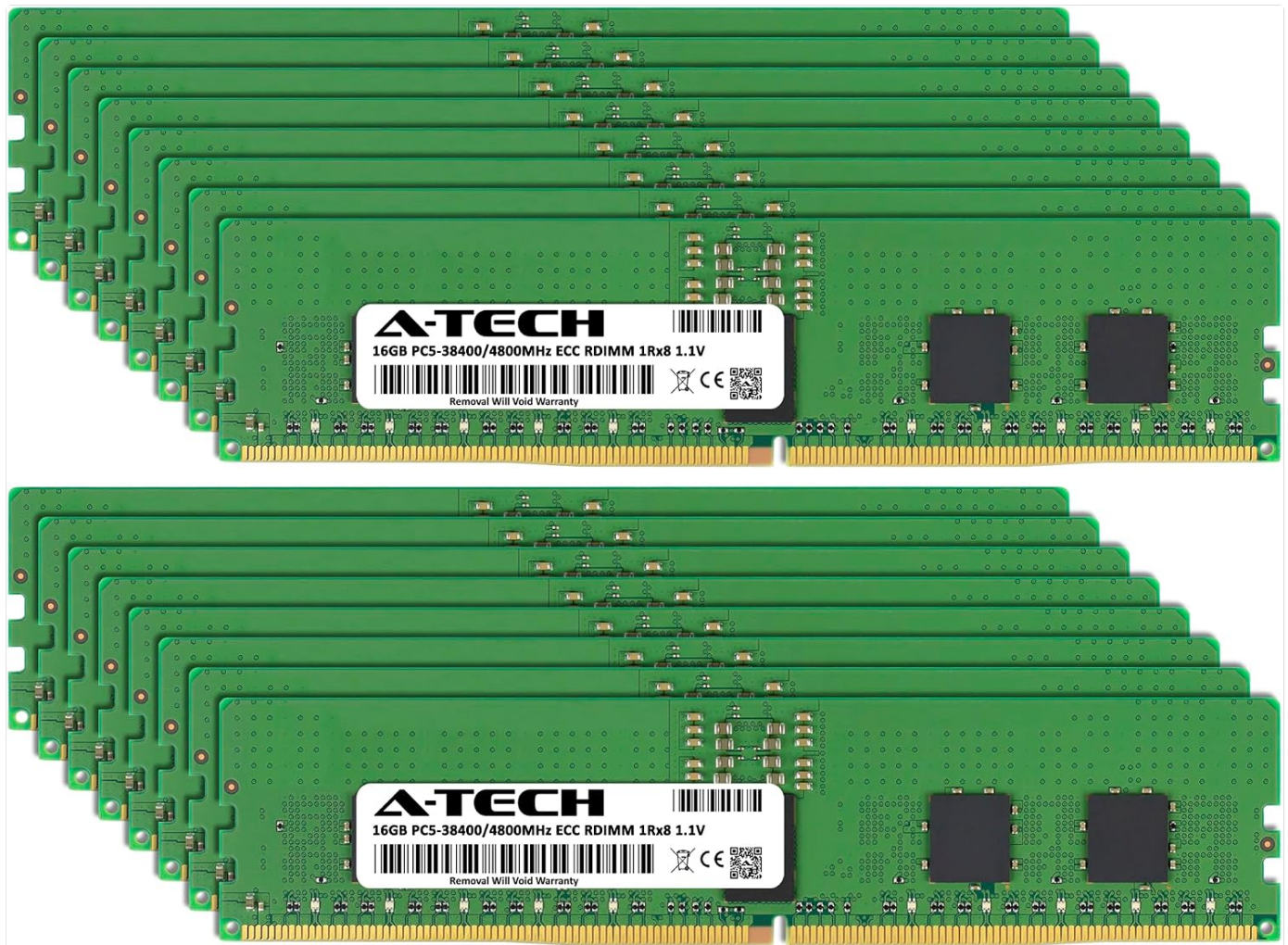
This manual provides essential information for the proper installation, operation, and maintenance of your A-Tech 256GB DDR5 4800MHz ECC Registered Server Memory Kit. Please read these instructions carefully before proceeding with the memory upgrade to ensure optimal performance and system stability. This memory kit is designed to enhance the performance of compatible Tyan server systems by expanding their memory capacity.

2. PRODUCT OVERVIEW

The A-Tech 256GB DDR5 4800MHz ECC Registered Server Memory Kit consists of sixteen 16GB modules, designed for high-performance server environments. These modules operate at 4800MHz (PC5-38400) with a standard voltage of 1.1V, featuring ECC Registered technology for enhanced data integrity and system reliability. The 288-Pin RDIMM form factor ensures compatibility with specified server motherboards.



This image displays the complete A-Tech 256GB DDR5 4800MHz ECC Registered Server Memory Kit, consisting of sixteen 16GB modules.



A close-up view of a single A-Tech 16GB DDR5 4800MHz ECC Registered Server Memory Module, showing its label and components.

3. COMPATIBILITY

This A-Tech memory kit is specifically designed for the following Tyan server models:

- B7132T75E8HR
- B7136G68AV4E8HR
- B7136T70AV12E8HR
- S7136GMRE
- TS70A-B7136
- TS75-B7132

It is compatible with server and workstation systems that support DDR5 ECC RDIMM (288-Pin) memory. **This memory is NOT compatible with standard desktop or laptop PCs.**

UPGRADE PERFORMANCE

Reduce bottlenecks, speed up data processing, and improve the stability of your Server with A-Tech Memory



This image shows server racks, indicating that the A-Tech DDR5 memory is designed for server and workstation systems.

COMPATIBILITY

Designed for Server Systems

(NOT COMPATIBLE with Desktop or Laptop PCs/Computers)

This image visually clarifies that the A-Tech DDR5 server memory is not compatible with standard desktop or laptop computers.

4. SETUP AND INSTALLATION

Installing new memory modules requires careful handling and adherence to your system's specific guidelines. Always refer to your server's official manual for detailed instructions on memory seating, channel configuration, and any specific requirements.

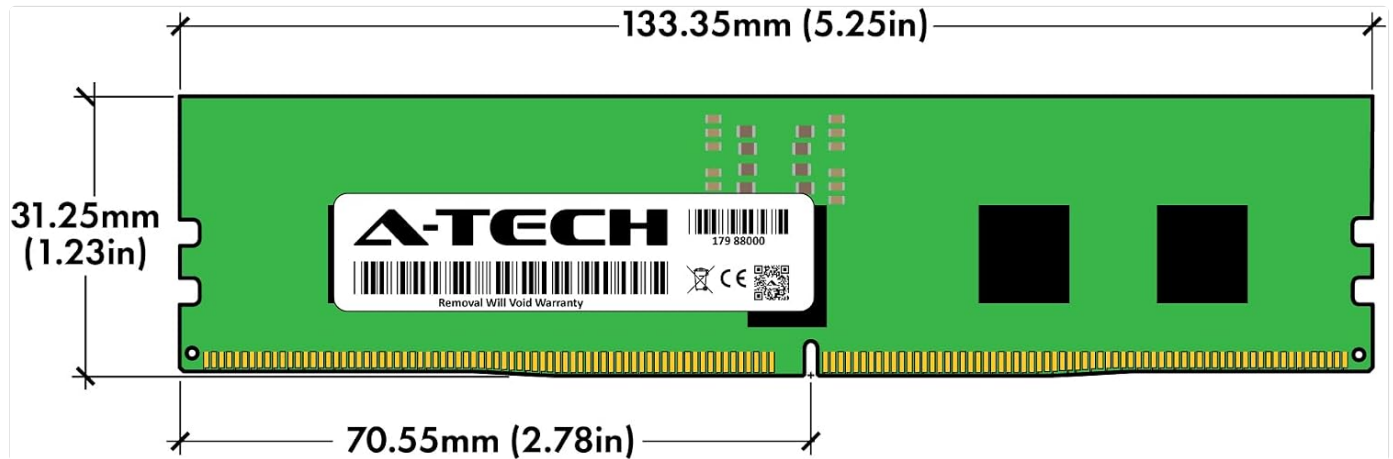
Safety Precautions:

- Always power off your server and disconnect it from the power source before opening the chassis.
- Discharge any static electricity by touching a grounded metal object before handling memory modules. Consider using an anti-static wrist strap.
- Handle memory modules by their edges to avoid touching the gold contacts or components.

General Installation Steps:

1. **Prepare the Server:** Power down the server completely and unplug all power cables.
2. **Open the Chassis:** Carefully open the server's case according to its manufacturer's instructions.

3. **Locate DIMM Slots:** Identify the DDR5 DIMM slots on the motherboard. Consult your server manual for the correct slot population order, especially when installing multiple modules.
4. **Install Modules:** Gently push down the retention 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. Apply even pressure to both ends of the module until it clicks into place and the retention clips snap shut.
5. **Secure and Close:** Once all modules are securely installed, close the server chassis and reconnect all power cables.
6. **Power On:** Power on the server. The system should automatically detect the new memory.



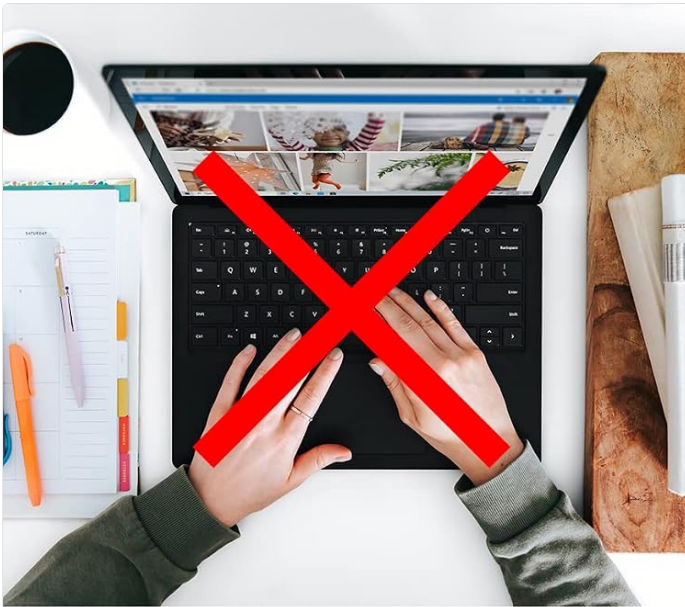
This image shows an A-Tech DDR5 memory module, illustrating its physical form factor relevant for installation into a compatible server motherboard.

5. OPERATING PRINCIPLES AND PERFORMANCE BENEFITS

Upgrading your server's memory with the A-Tech 256GB DDR5 kit directly impacts its operational efficiency and performance. By expanding the system's RAM capacity, you enable the server to handle more data and applications simultaneously without slowdowns.

Key Benefits:

- **Improved Loading Times:** Faster access to frequently used data and applications.
- **Reduced Bottlenecks:** Minimizes delays caused by insufficient memory, allowing the CPU to process tasks more efficiently.
- **Increased Workload Capacity:** Supports a greater number of virtual machines, databases, or complex computational tasks.
- **Enhanced Stability:** ECC Registered memory corrects single-bit memory errors, crucial for mission-critical server applications, ensuring data integrity and system uptime.



NOT COMPATIBLE for Desktop and Laptop PC/Computers

This image depicts a user efficiently working with multiple displays, representing the enhanced performance and increased workload capacity achieved by upgrading with A-Tech memory.

6. MAINTENANCE

A-Tech memory modules are designed for long-term reliability and typically require minimal maintenance. To ensure their longevity and optimal performance:

- **Keep Clean:** Ensure the server environment is clean and free of dust, which can impede airflow and cause overheating.
- **Proper Handling:** If modules need to be removed or re-seated, always follow the safety precautions outlined in the installation section.
- **Storage:** Store any unused or removed modules in anti-static bags to protect them from electrostatic discharge and environmental factors.

7. TROUBLESHOOTING

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

Common Issues and Solutions:

- **System Does Not Boot / No Display:**

- Ensure all 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 manual.
- Test modules individually if you have multiple, to identify a potentially faulty one.

- **Incorrect Memory Capacity Detected:**

- Check your server's BIOS/UEFI settings to ensure the memory is recognized correctly.
- Ensure your server's motherboard and operating system support the total installed memory capacity.
- Update your server's BIOS/UEFI to the latest version, as this often includes improved memory compatibility.

- **System Instability / Crashes:**

- Run a memory diagnostic tool (e.g., MemTest86) to check for errors.
- Verify that the memory modules are compatible with your server's CPU and chipset.

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

8. QUALITY AND RELIABILITY

All A-Tech memory modules undergo stringent quality control testing to ensure dependable and reliable performance. This commitment to quality ensures that your server operates with maximum stability and efficiency.



This image illustrates a professional working with multiple displays, representing the reliability and quality control standards applied to A-Tech memory products.

9. SPECIFICATIONS

Feature	Specification
RAM Capacity	256 GB (16 x 16GB Modules)
Brand	A-Tech
Series / Model Number	ARU849
Product Dimensions (LxWxH)	5.25 x 1.23 x 0.15 inches
Voltage	1.1 Volts
RAM Memory Technology	DDR5
Memory Speed	4800 MHz (PC5-38400)
Module Type	ECC Registered RDIMM (288-Pin)
Rank and Organization	1Rx8 (EC8)
Compatible Devices	Tyan Server Systems (as listed in Compatibility section)



COMPATIBILITY

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

This diagram provides precise measurements of the A-Tech DDR5 memory module, including length (133.35mm / 5.25in) and height (31.25mm / 1.23in).

10. WARRANTY AND SUPPORT

A-Tech memory modules are backed by a Limited Lifetime Warranty, ensuring confidence in your purchase. Our knowledgeable Tech Team is available to provide support before and after your purchase.



This image displays the A-Tech Limited Lifetime Warranty badge, assuring product quality and customer confidence.

For warranty claims, technical assistance, or any product-related inquiries, please visit the official A-Tech website:
atechmemory.com

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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.

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Email

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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.

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