

A-Tech SNPPWR5TC/16G-ATC

A-Tech 16GB DDR4 2666MHz ECC Registered RDIMM Server Memory Module Instruction Manual

Model: SNPPWR5TC/16G-ATC

INTRODUCTION

This manual provides instructions for the installation and use of the A-Tech 16GB DDR4 2666MHz PC4-21300 ECC Registered RDIMM 2Rx8 Server Memory Module. This module is specifically designed for server systems, such as the Dell PowerEdge R740, and is not compatible with desktop or laptop computers. Please read these instructions carefully before proceeding with installation.





Image: A-Tech 16GB DDR4 ECC Registered RDIMM Server Memory Module in its protective retail packaging.

COMPATIBILITY

Designed for Server Systems

(NOT COMPATIBLE) with Desktop or Laptop PCs/Computers

Image: Visual emphasizing that the memory module is designed exclusively for server systems and is not compatible with desktop or laptop computers.

SETUP AND INSTALLATION

Proper installation of the memory module is crucial for system stability and performance. Always refer to your server's specific documentation for detailed memory installation procedures and slot configurations.

Safety Precautions

- **Electrostatic Discharge (ESD) Protection:** Always wear an anti-static wrist strap or frequently touch a grounded metal object (e.g., the server chassis) before handling memory modules to prevent ESD damage.
- **Power Off:** Ensure the server is completely powered off and disconnected from all power sources before opening the chassis.
- **Handle with Care:** Hold the memory module by its edges, avoiding contact with the gold connectors or the integrated circuits.

Installation Steps

1. **Prepare the Server:** Power down the Dell PowerEdge R740 server and unplug all power cables. Open the server chassis according to the manufacturer's instructions.
2. **Locate Memory Slots:** Identify the available DIMM slots on the server's motherboard. Consult your server's manual for the correct slot population order for optimal performance.
3. **Open Retention Clips:** Gently push the retention clips at both ends of the DIMM slot outwards to open them.
4. **Insert Memory Module:** Align the notch on the A-Tech memory module with the key in the DIMM slot. Carefully insert the module straight down into the slot.
5. **Secure Module:** Apply even pressure to both ends of the module until the retention clips snap into place, securing the module. Ensure the module is seated firmly and evenly.
6. **Close Server:** Once all memory modules are installed, close the server chassis and reconnect the power cables.
7. **Power On and Verify:** Power on the server. The system BIOS should automatically detect the new memory. Verify the installed memory capacity in the BIOS or operating system.

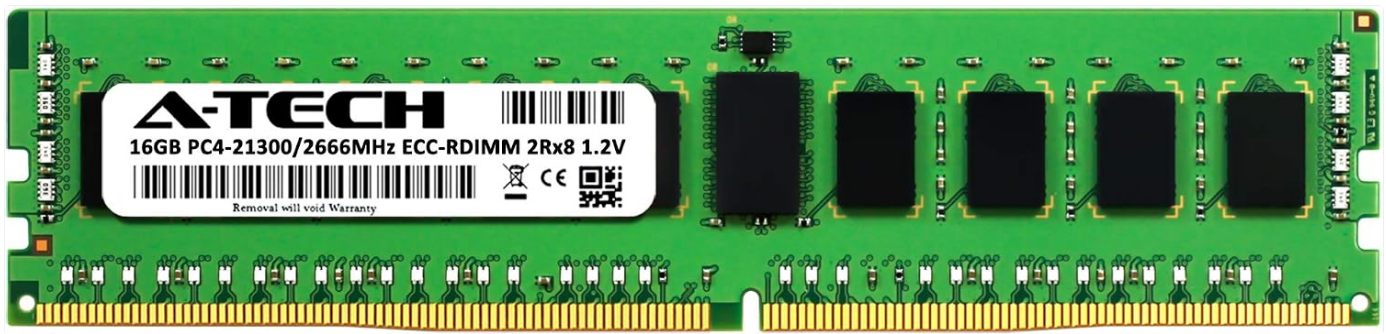


Image: Front view of the A-Tech 16GB DDR4 ECC Registered RDIMM Server Memory Module, showing the label and components.

OPERATING PRINCIPLES

Once installed, the A-Tech 16GB DDR4 ECC Registered RDIMM functions as part of your server's main memory (RAM). It provides temporary storage for data that the server's processor actively uses, enabling faster access compared to storage drives. This module's ECC (Error-Correcting Code) feature detects and corrects common types of internal data corruption, enhancing data integrity and system stability critical for server environments. Registered (RDIMM) memory includes a buffer between the memory controller and the DRAM modules, which reduces the electrical load on the memory controller, allowing for more memory modules to be installed and improving system stability in high-capacity server configurations.

MAINTENANCE

Memory modules generally require minimal maintenance. Adhering to the following guidelines will help ensure their longevity and reliable operation:

- **Keep Clean:** Periodically inspect the server's interior for dust accumulation. Dust can impede airflow and lead to overheating. Use compressed air to gently clear dust from around memory modules and other components, ensuring the server is powered off and unplugged first.
- **Proper Handling:** When handling memory modules, always use anti-static precautions and avoid touching the gold contacts or chips directly.
- **Environmental Conditions:** Ensure the server operates within recommended temperature and humidity ranges to prevent component degradation.

TROUBLESHOOTING

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

- **System Not Booting or Beeping Codes:** This often indicates a memory issue. Ensure the module is fully seated in its slot. Remove and re-insert the module, ensuring the retention clips lock properly.
- **Incorrect Memory Capacity Detected:** Verify that the module is correctly installed and that your server's BIOS is updated to support the new memory configuration. Check your server's manual for memory population rules.
- **System Instability or Crashes:** If the system boots but experiences instability, try running a memory diagnostic tool (e.g., MemTest86) to check for errors. Ensure the module is compatible with your server model and existing memory.
- **Compatibility Check:** Double-check that the memory module type (DDR4, ECC Registered RDIMM) and speed (2666MHz) match your server's requirements. This module is **not compatible with desktop or laptop systems**.

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

SPECIFICATIONS

Key technical specifications for the A-Tech 16GB DDR4 2666MHz ECC Registered RDIMM Server Memory Module:

Feature	Specification
Memory Capacity	16 GB
Memory Type	DDR4 SDRAM
Memory Speed	2666 MHz (PC4-21300 / PC4-2666V-R)
Form Factor	DIMM (288-Pin)
Error Correction	ECC Registered (RDIMM)
Rank Configuration	2Rx8 - Dual Rank x8
Voltage	1.2 Volts
Compatible Devices	Server (e.g., Dell PowerEdge R740)
Model Number	SNPPWR5TC/16G-ATC
Equivalent Part Numbers	SNPPWR5TC/16G, SNPPWR5TC/16VXR, AA940922, AB003149, PWR5T, 0PWR5T

Physical Dimensions

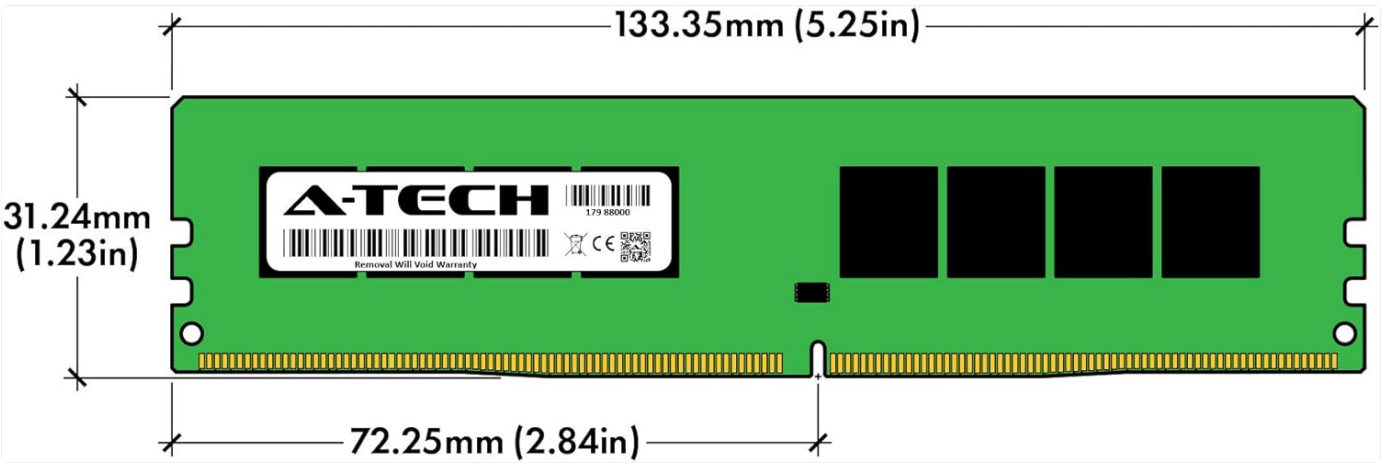


Image: Diagram illustrating the physical dimensions of the A-Tech DDR4 DIMM module, including length (133.35mm / 5.25in) and height (31.24mm / 1.23in).

Length: 133.35mm (5.25in)

Height: 31.24mm (1.23in)

WARRANTY AND SUPPORT

Lifetime Warranty

A-Tech provides a Lifetime Warranty for all memory modules. This warranty covers defects in materials and workmanship for the life of the product.

Technical Support

Complimentary United States-based Technical Support is available before, during, and after your purchase. For assistance, please visit the [A-Tech Store on Amazon](#) or refer to the official A-Tech website: atechmemory.com.

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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