

## parts-quick 32GB DDR5 PC5-38400 4800MHz ECC Registered DIMM

# parts-quick 32GB DDR5 4800MHz ECC RDIMM RAM Instruction Manual

For Supermicro SuperServer SYS-241E-TNRTTP (Super X13QEH+)

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your parts-quick 32GB DDR5 PC5-38400 4800MHz ECC Registered DIMM. This memory module is specifically designed for compatibility with the Supermicro SuperServer SYS-241E-TNRTTP (Super X13QEH+). Please read this manual thoroughly before installation to ensure proper setup and to maximize the performance and longevity of your system's memory.

## 2. SAFETY INFORMATION

Observe the following safety precautions during installation and handling:

- Always disconnect the power from your server before opening the chassis or installing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity. Static discharge can damage sensitive electronic components.
- Handle the memory module by its edges to avoid touching the gold contacts or integrated circuits.
- Ensure the server is in a well-ventilated area.
- This product is ROHS compliant and Halogen Free.

## 3. PACKAGE CONTENTS

Verify that your package contains the following item:

- 1 x parts-quick 32GB DDR5 PC5-38400 4800MHz ECC Registered DIMM



*Image: parts-quick 32GB DDR5 ECC RDIMM Memory Module. This image shows a single memory module, typically green or black, with integrated circuits visible on both sides.*

## 4. SETUP AND INSTALLATION

Before proceeding with installation, it is crucial to consult the user manual for your Supermicro SuperServer SYS-241E-TNRTTP (Super X13QEH+) for specific memory installation rules and compatibility guidelines. Servers often have specific requirements for DIMM population and mixing.

1. **Prepare the Server:** Power down the Supermicro SuperServer SYS-241E-TNRTTP completely and disconnect all power cables.
2. **Open the Chassis:** Carefully open the server chassis according to the server's manual.
3. **Locate DIMM Slots:** Identify the DDR5 DIMM slots on the motherboard. Refer to your server's manual for the correct slot population order, especially if installing multiple modules or mixing with existing memory.
4. **Install the Memory Module:**
  - Gently push open the retention clips at both ends of the DIMM slot.
  - Align the notch on the memory module with the key in the DIMM slot. DDR5 modules have a specific notch position to prevent incorrect insertion.
  - Insert the module firmly and evenly into the slot until the retention clips snap into place, securing the module. Do not force the module.
5. **Close the Chassis:** Once all memory modules are installed, close the server chassis and reconnect the power cables.
6. **Power On and Verify:** Power on the server. During the boot process, the system BIOS should detect the new memory. Check the system's BIOS/UEFI settings or operating system information to confirm that the installed 32GB DDR5 4800MHz memory is recognized correctly.

**Important: System supports many types of DIMMs, and mixing of DIMMs may or may not be supported. Please ensure to buy the type of DIMMs which will work along with existing DIMMs in the server. Contact parts-quick support if you have any questions regarding compatibility.**

## 5. OPERATING INSTRUCTIONS

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Once installed, the parts-quick 32GB DDR5 4800MHz ECC RDIMM operates automatically with your Supermicro SuperServer SYS-241E-TNRTTP. No specific user interaction is required for its operation beyond ensuring proper installation.

- The memory module will function at its rated speed of 4800MHz, provided the server's motherboard and CPU support this speed.
- ECC (Error-Correcting Code) functionality will be active, providing enhanced data integrity and system stability, which is crucial for server environments.
- Monitor your server's performance and memory usage through the operating system's tools or server management software.

## 6. MAINTENANCE

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Memory modules generally require minimal maintenance. However, consider the following for optimal performance and longevity:

- **Keep the Server Clean:** Ensure the server's internal components, including memory modules, are free from dust accumulation. Dust can impede airflow and lead to overheating. Use compressed air to gently clean the server's interior periodically.
- **Environmental Control:** Operate the server in a stable environment with controlled temperature and humidity to prevent component degradation.
- **Firmware Updates:** Keep your server's BIOS/UEFI firmware updated. Manufacturers often release updates that improve memory compatibility and stability.

## 7. TROUBLESHOOTING

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

- **No Boot/POST Errors:**
  - Ensure the memory module is fully seated in its slot and the retention clips are locked.
  - Verify that the module is installed in the correct slot according to your server's manual.
  - If installing multiple modules, try installing one module at a time to isolate a potentially faulty module or slot.
  - Reset the server's BIOS/CMOS to default settings.
- **Incorrect Memory Capacity Detected:**
  - Check the server's BIOS/UEFI settings to confirm the detected memory.
  - Ensure your operating system is 64-bit to fully utilize 32GB or more of RAM.
  - Re-seat the memory module.
- **System Instability/Crashes:**
  - Run a memory diagnostic tool (e.g., MemTest86) to check for errors.
  - Ensure the server's cooling system is functioning correctly to prevent overheating.

- Verify that the server's BIOS/UEFI is up to date.

If issues persist, please contact parts-quick technical support for further assistance.

## 8. SPECIFICATIONS

<b>Capacity</b>	32GB
<b>Memory Type</b>	DDR5
<b>Speed</b>	PC5-38400 (4800MHz)
<b>Form Factor</b>	288-pin ECC Registered DIMM
<b>Voltage</b>	1.1V
<b>CAS Latency</b>	CL40
<b>Compatibility</b>	Supermicro SuperServer SYS-241E-TNRTTP (Super X13QEH+)
<b>Environmental Compliance</b>	ROHS: HALOGEN FREE

## 9. WARRANTY AND SUPPORT

This parts-quick memory module is backed by a **Lifetime Warranty**. For technical support or warranty claims, please contact parts-quick directly.

**Toll Free Technical Support:** Refer to the contact information provided with your purchase or on the official parts-quick website.

For compatibility questions or any other inquiries, do not hesitate to reach out to parts-quick customer service.