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› parts-quick 64GB DDR4 3200MHz PC4-25600 ECC RDIMM RAM User Manual for Supermicro X12DPG-QT6 Motherboard

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For Supermicro X12DPG-QT6 Motherboard

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your parts-quick 64GB DDR4 3200MHz PC4-25600 ECC Registered DIMM (RDIMM) RAM module. This memory module is specifically designed for compatibility with the Supermicro X12DPG-QT6 Motherboard, ensuring optimal performance and stability for your system.

Please read these instructions carefully before proceeding with installation to prevent damage to the memory module or your system.

2. SETUP AND INSTALLATION

Proper installation of the memory module is crucial for system functionality. Always handle memory modules by their edges to avoid touching the gold contacts or components.

2.1 Pre-Installation Checklist

- Ensure your system is powered off and unplugged from the power source.
- Ground yourself to discharge any static electricity. Use an anti-static wrist strap if available.
- Refer to your Supermicro X12DPG-QT6 Motherboard manual for specific DIMM slot configurations and population rules.

2.2 Important Compatibility Note

This system supports both Registered DIMM (RDIMM) and Load Reduced DIMM (LRDIMM) memory modules. However, RDIMM and LRDIMM modules CANNOT be mixed within the same system. Ensure all installed memory modules are of the same type (either all RDIMM or all LRDIMM).

2.3 Installation Steps

1. Locate the DIMM slots on your Supermicro X12DPG-QT6 Motherboard.

2. Gently push open the retention clips at both ends of the DIMM slot.
3. Align the notch on the memory module with the key in the DIMM slot. The module will only fit one way.
4. Insert the module firmly into the slot, applying even pressure to both ends until the retention clips snap into place.
5. Visually inspect the module to ensure it is seated correctly and the clips are fully engaged.
6. Close your computer case, reconnect the power, and power on the system.

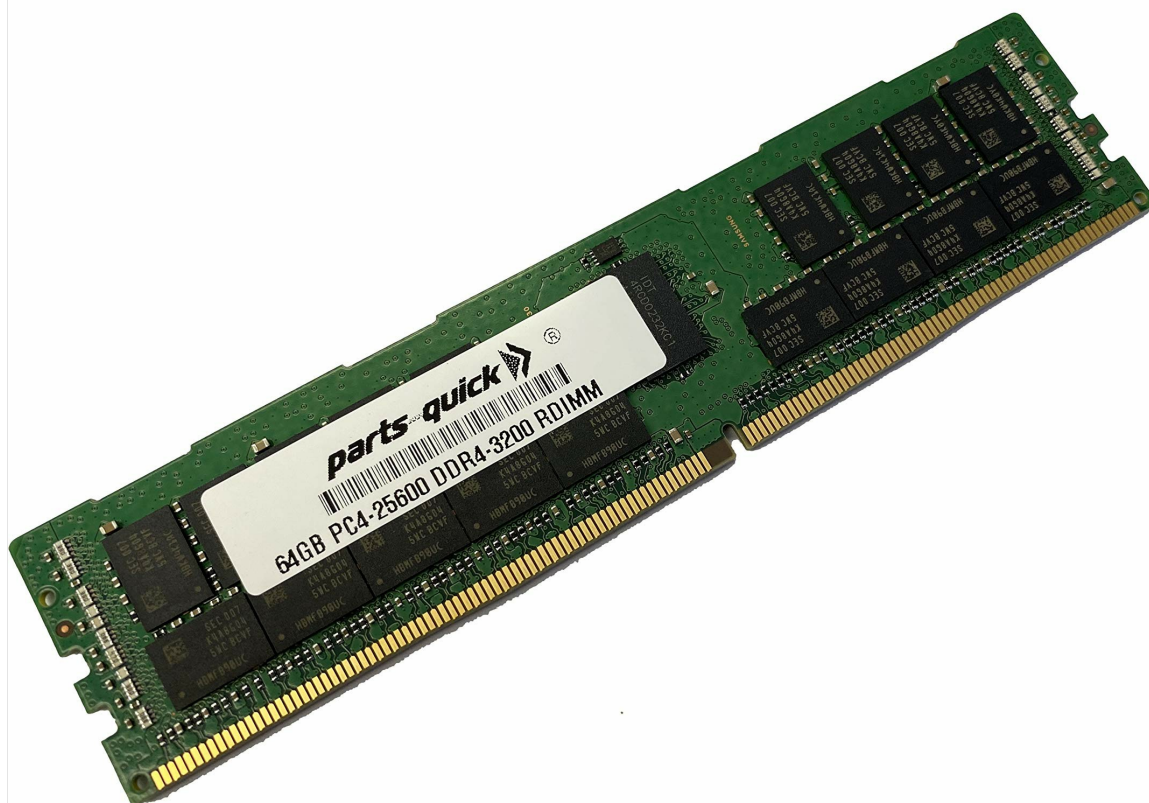


Image: A parts-quick 64GB DDR4 ECC RDIMM RAM module. This image shows the physical appearance of the memory stick, including its chips and gold contacts, which should be handled with care during installation.

3. OPERATING CONSIDERATIONS

Once installed, the memory module operates automatically with your system. The Supermicro X12DPG-QT6 Motherboard will detect the new memory capacity and speed upon boot-up. No specific software installation is required for the memory module itself.

3.1 System Recognition

After installation, power on your system. During the Power-On Self-Test (POST), the system BIOS will detect and verify the newly installed memory. You can typically verify the total installed memory in the BIOS/UEFI settings or within your operating system's system information.

3.2 Performance

This 64GB DDR4 3200MHz PC4-25600 ECC RDIMM module is designed to provide high-speed data transfer and error correction capabilities, enhancing the overall performance and reliability of your server or workstation.

4. MAINTENANCE

Memory modules generally require minimal maintenance. However, adhering to good practices can prolong their lifespan and ensure stable system operation.

- **Dust Control:** Keep your computer's interior clean and free of dust. Dust accumulation can lead to overheating and affect component performance.
- **Temperature:** Ensure adequate airflow within your system to maintain optimal operating temperatures for all components, including RAM.
- **Handling:** If you need to remove or re-install the memory, always follow proper anti-static procedures and handle the module by its edges.

5. TROUBLESHOOTING

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

5.1 System Not Booting / No Display

- **Reseat the Module:** Power off and unplug the system. Carefully remove and re-install the memory module, ensuring it is fully seated in the DIMM slot and the retention clips are locked.
- **Check Compatibility:** Double-check that you are not mixing RDIMM and LRDIMM modules. All modules must be of the same type.
- **Test Individually:** If you installed multiple modules, try booting with only one module at a time to identify a potentially faulty module or slot.
- **Clear CMOS:** Refer to your motherboard manual for instructions on how to clear the CMOS, which can reset BIOS settings that might be causing conflicts.

5.2 Incorrect Memory Capacity Detected

- **Check BIOS/UEFI:** Enter your system's BIOS/UEFI settings to verify the detected memory capacity.
- **Operating System Limitations:** Ensure your operating system is a 64-bit version, as 32-bit operating systems cannot utilize more than approximately 4GB of RAM.
- **Motherboard Support:** Confirm that your Supermicro X12DPG-QT6 Motherboard supports the total amount of RAM you have installed.

5.3 System Instability / Blue Screens

- **Memory Diagnostics:** Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors in the RAM module.
- **BIOS Update:** Ensure your motherboard's BIOS is updated to the latest version, as updates often include improved memory compatibility and stability.

6. SPECIFICATIONS

Key technical specifications for the parts-quick 64GB DDR4 3200MHz PC4-25600 ECC RDIMM RAM module:

Feature	Description
Capacity	64GB

Memory Type	DDR4
Speed	3200MHz (PC4-25600)
Error Correction	ECC (Error-Correcting Code)
Form Factor	288-pin Registered DIMM (RDIMM)
Voltage	1.2V
CAS Latency	CL22
ROHS Compliance	HALOGEN FREE
Compatibility	Supermicro X12DPG-QT6 Motherboard

7. WARRANTY AND SUPPORT

Your parts-quick memory module is backed by a **Lifetime Warranty**, ensuring peace of mind regarding its quality and durability.

For technical assistance or warranty claims, please contact parts-quick Toll Free Technical Support. Refer to the product packaging or the parts-quick official website for current contact information.

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

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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.

Submit question