

- Manuals.plus /
- › parts-quick /
- › parts-quick 2GB Memory Kit for SOYO SY-CK8 Dragon Plus Motherboard Installation Guide

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INTRODUCTION

This manual provides comprehensive instructions for the proper installation and use of your parts-quick 2GB (2 x 1GB) PC3200 DDR ECC DIMM RAM Upgrade Kit, specifically designed for the SOYO SY-CK8 Dragon Plus Motherboard. Please read this guide thoroughly before proceeding with installation to ensure optimal performance and system stability.

PRODUCT OVERVIEW

The parts-quick 2GB Memory Kit consists of two 1GB PC3200 400MHz 184-pin Unbuffered 2.6V CL3 DDR SDRAM ECC DIMM modules. This memory kit is engineered to be fully compatible with the SOYO SY-CK8 Dragon Plus Motherboard, providing a reliable upgrade for your system. The ECC (Error-Correcting Code) feature is specifically for server environments, enhancing data integrity.



Image: Two parts-quick 1GB DDR ECC DIMM RAM modules. These modules are designed for system memory upgrades, featuring a standard form factor and pin configuration.

SAFETY INFORMATION

- **Power Off:** Always ensure your computer is completely powered off and unplugged from the wall outlet before opening the case or handling internal components.
- **Static Electricity:** Electronic components are sensitive to static electricity. Discharge any static electricity from your body by touching a grounded metal object (e.g., the metal chassis of your computer) before handling the memory modules. Consider using an anti-static wrist strap.
- **Handle with Care:** Hold the memory modules by their edges. Avoid touching the gold contacts or the chips on the module.
- **Ventilation:** Ensure adequate ventilation around your computer to prevent overheating, especially after hardware upgrades.

SETUP: MEMORY INSTALLATION

Follow these steps carefully to install the memory modules into your SOYO SY-CK8 Dragon Plus Motherboard.

1. Prepare Your System:

- Shut down your computer completely and unplug the power cord from the wall outlet.
- Open the computer case to access the motherboard.
- Discharge any static electricity from your body.

2. Locate DIMM Slots:

Identify the DDR DIMM slots on your SOYO SY-CK8 Dragon Plus Motherboard. Consult your motherboard's manual for specific slot configurations if unsure.

3. **Open Retention Clips:** Gently push the white retention clips at both ends of the DIMM slot outwards to open them.
4. **Align Memory Module:** Hold the memory module by its edges. Align the notch on the bottom edge of the memory module with the corresponding key in the DIMM slot. This ensures correct orientation. Do not force the module if it does not align.
5. **Insert Memory Module:** Place the module into the slot and apply firm, even pressure to both ends of the module simultaneously until the retention clips snap into place, securing the module.
6. **Repeat for Second Module:** Install the second 1GB module into an available, compatible DIMM slot, following the same alignment and insertion procedure. For optimal performance, refer to your motherboard manual for dual-channel memory configuration guidelines.
7. **Close Case and Power On:** Once both modules are securely installed, close your computer case, plug in the power cord, and power on your system.



Image: A generic representation of a RAM module being inserted into a motherboard's DIMM slot. The image shows the module aligned with the slot key and the retention clips open, ready to secure the module.

OPERATING: SYSTEM VERIFICATION

After installation, it is important to verify that your system recognizes the new memory.

- **BIOS/UEFI Check:** Upon booting your computer, enter the BIOS/UEFI setup (usually by pressing DEL, F2, or F10 during startup). Navigate to the system information or memory section to confirm that the total installed RAM is reported as 2GB.
- **Operating System Check:** Once your operating system loads, you can verify the installed memory:
 - **Windows:** Right-click "This PC" or "My Computer," then select "Properties." The installed RAM will be displayed.
 - **Linux:** Open a terminal and type `free -h` or `cat /proc/meminfo`.

- **ECC Functionality:** Note that this memory features ECC (Error-Correcting Code). This functionality is primarily utilized by server-grade motherboards and operating systems designed to leverage ECC for enhanced data integrity. For standard desktop use, the ECC feature may not be actively reported or utilized by the system, but the memory will still function as standard unbuffered DDR RAM.

MAINTENANCE

Memory modules generally require minimal maintenance. However, proper handling and a clean environment can prolong their lifespan.

- **Cleaning:** If dust accumulates on the modules or slots, use compressed air to gently blow it away. Do not use liquids or abrasive materials.
- **Handling:** Always handle memory modules by their edges to avoid touching the gold contacts or integrated circuits.
- **Environment:** Ensure your computer operates in a clean, dry, and temperature-controlled environment to prevent dust buildup and moisture damage.

TROUBLESHOOTING

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

- **System Does Not Boot:**
 - Ensure the memory modules are fully seated in their slots and the retention clips are locked.
 - Verify that the modules are installed in the correct DIMM slots as per your motherboard's manual.
 - Try installing only one module at a time to identify if one module is faulty.
- **Incorrect RAM Amount Reported:**
 - Check BIOS/UEFI settings to ensure the memory is detected correctly.
 - Confirm that your operating system is a 64-bit version if you are installing more than 4GB of RAM (though this kit is 2GB, it's a general troubleshooting tip).
 - Ensure the modules are compatible with your motherboard's chipset and BIOS version.
- **System Instability/Crashes:**
 - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
 - Ensure your motherboard's BIOS is updated to the latest version, which may improve memory compatibility.

SPECIFICATIONS

Feature	Specification
Capacity	2GB Kit (2 x 1GB)
Form Factor	184-pin DIMM
Memory Type	DDR SDRAM
Speed	PC3200 (400MHz)
Error Correction	ECC (Error-Correcting Code)
Voltage	2.6 Volts

Feature	Specification
CAS Latency	CL3
Compatibility	SOYO SY-CK8 Dragon Plus Motherboard

WARRANTY AND SUPPORT

Your parts-quick 2GB Memory Kit is backed by a comprehensive warranty and dedicated technical support.

- **Lifetime Warranty:** This memory kit comes with a Lifetime Warranty, ensuring peace of mind regarding its quality and durability.
- **Toll-Free Technical Support:** For any installation questions, troubleshooting assistance, or product inquiries, please contact parts-quick Toll-Free Technical Support. Refer to the product packaging or the parts-quick official website for contact details.

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