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Computer Memory Solutions CM4096642666DIMMX4

CMS 128GB DDR4 Memory Module User Manual

Model: CM4096642666DIMMX4 | Brand: Computer Memory Solutions

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, usage, and maintenance of your Computer Memory Solutions (CMS) 128GB (4x32GB) DDR4 2666MHz Non-ECC DIMM Memory Kit. This high-performance memory is designed to enhance the speed and efficiency of compatible systems.

Key Features:

- 128GB Total memory (4 x 32GB modules)
- DDR4-21300, 2666 MHz Speed
- Non-ECC, CL19, 2R, X8, 1.2V, Unbuffered, DIMM, 288-pin
- Guaranteed compatibility with specified MSI Motherboard models.

2. INSTALLATION GUIDE (SETUP)

Proper installation is crucial for optimal performance and system stability. Please follow these steps carefully.

2.1. Before Installation

- **Compatibility Check:** Ensure your motherboard (e.g., MSI Z390-A PRO, Z490-A PRO) supports DDR4 2666MHz Non-ECC DIMM memory and has sufficient available 288-pin DIMM slots. This kit requires 4 slots.
- **Power Off:** Completely shut down your computer and disconnect the power cord from the wall outlet.
- **Static Discharge:** Ground yourself before handling memory modules to prevent electrostatic discharge (ESD) damage. Touch a metal part of the computer chassis.
- **Operating System:** A 64-bit operating system is required to utilize more than 4GB of memory. For 128GB, a 64-bit OS is essential.

2.2. Installing the Memory Modules

1. Open your computer case. Refer to your computer or motherboard manual for instructions on how to access the DIMM slots.
2. Locate the DIMM slots on your motherboard. They are typically near the CPU.
3. Gently push open the white clips at both ends of the DIMM slot.
4. Align the notch on the memory module with the key in the DIMM slot. Ensure the module is oriented correctly.
5. Insert the module firmly into the slot, pressing down evenly on both ends until the clips snap into place. Do not force the module.

6. Repeat for all four memory modules. For optimal performance, install modules in matched pairs according to your motherboard's dual-channel or quad-channel configuration guidelines.

Image 1: Four CMS 32GB DDR4 RAM modules. Each module features a green printed circuit board (PCB) with black memory chips and a white sticker indicating "Warranty Void If Removed" with the Computer Memory Solutions logo.

Image 2: A different perspective of the four CMS 32GB DDR4 RAM modules. This view emphasizes the golden electrical contacts at the bottom of each module, essential for connection to the motherboard, along with the "Warranty Void If Removed" sticker.

2.3. Post-Installation

- Close your computer case.
- Reconnect the power cord and turn on your computer.
- The system should automatically detect the new memory. You can verify the installed memory in your operating system's system information or BIOS/UEFI settings.

3. OPERATING CONSIDERATIONS

Once installed, the memory modules operate automatically with your system. Here are some important considerations:

- **System Performance:** While you can mix memory modules from different manufacturers, all memory in the system will operate at the slowest speed of the installed modules or the maximum speed supported by your CPU/processor and motherboard. For optimal performance, using matched pairs and modules with identical specifications is recommended.
- **BIOS/UEFI Settings:** In some cases, you may need to enter your system's BIOS/UEFI settings to ensure the memory is running at its advertised speed (2666MHz). Look for XMP (Extreme Memory Profile) or DOCP (D.O.C.P.) settings and enable them if available.

4. MAINTENANCE

Memory modules are solid-state components and generally require no routine maintenance. To ensure their longevity:

- Keep your computer's interior clean and free of dust to maintain proper airflow and prevent overheating of components.
- Avoid physical shock or bending the modules.
- Do not remove the "Warranty Void If Removed" sticker, as this will invalidate your warranty.

5. TROUBLESHOOTING

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

- **System Not Booting / No Display:**
 - Ensure all memory modules are fully seated in their slots and the clips are locked.
 - Try installing one module at a time to identify a potentially faulty module.
 - Clear your motherboard's CMOS (Complementary Metal-Oxide-Semiconductor) settings. Refer to your motherboard manual for instructions.

- **Incorrect Memory Detected:**
 - Verify the memory amount in your system's BIOS/UEFI settings.
 - Ensure your operating system is 64-bit. A 32-bit OS cannot address more than 4GB of RAM.
 - Check for the latest BIOS/UEFI updates for your motherboard, as these often include improved memory compatibility.
- **System Instability / Blue Screens (BSOD):**
 - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
 - Ensure your system's power supply unit (PSU) is sufficient for all components, including the new memory.

If issues persist, contact Computer Memory Solutions support for further assistance.

6. PRODUCT SPECIFICATIONS

Attribute	Detail
RAM Capacity	128 GB (4 x 32GB modules)
Memory Type	DDR4 SDRAM
Speed	2666 MHz (PC4 21300)
Form Factor	DIMM, 288-pin
Error Correction	Non-ECC
Voltage	1.2 Volts
Compatible Devices	MSI Motherboard Z390-A PRO, Z490-A PRO (and other compatible systems)
Product Dimensions (LxWxH)	5.25 x 0.15 x 1.24 inches
Color	Green, Black, Or Blue (depending on stock)
Model Number	CM4096642666DIMMX4

7. WARRANTY AND SUPPORT

Computer Memory Solutions stands behind the quality of its products.

- **Limited Lifetime Warranty:** This product is covered by a limited lifetime warranty against manufacturing defects when purchased directly from Computer Memory Solutions.
- **Exchange or Repair:** The warranty includes lifetime exchange or repair against manufacturing defects.
- **Contact Support:** For warranty claims, technical assistance, or any questions regarding your memory modules, please contact Computer Memory Solutions directly. Refer to the seller's information on your purchase platform for contact details.

Note: Product appearance may vary. Picture for reference only. We do not use OEM or Generic Modules to avoid incompatibility.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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