Crucial CT102464BD186D

Crucial 8GB DDR3 PC3-14900 UDIMM Memory Module (CT102464BD186D) Instruction Manual

Model: CT102464BD186D

Introduction

This manual provides essential instructions for the installation, operation, and maintenance of your Crucial 8GB DDR3 PC3-14900 UDIMM memory module. Please read this manual thoroughly before proceeding with installation to ensure proper function and to prevent damage to your system or the memory module.



Image: A Crucial 8GB DDR3 PC3-14900 UDIMM memory module, showing the green PCB and black memory chips with the blue Crucial label.

Safety Information

Always observe the following safety precautions when handling computer components:

- **Electrostatic Discharge (ESD) Prevention:** ESD can damage electronic components. Before handling the memory module, touch a grounded metal object (e.g., the metal chassis of your computer) to discharge static electricity. Consider using an anti-static wrist strap.
- **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet before opening the case or installing any components.
- **Handle with Care:** Hold the memory module by its edges. Avoid touching the gold connector pins or the memory chips directly.
- **Ventilation:** Ensure adequate ventilation around your computer to prevent overheating.

Setup and Installation

1. Pre-Installation Checks

- **Compatibility:** Verify that your computer's motherboard supports DDR3 UDIMM memory and the specified speed (1866MHz) and voltage (1.35V). Refer to your computer or motherboard manual.
- **Tools:** You may need a Phillips head screwdriver to open your computer case.
- **Backup:** It is recommended to back up important data before performing hardware upgrades.

2. Physical Installation

1. **Prepare Your System:**
    - Shut down your computer completely.
    - Unplug the power cord and all peripheral cables.
    - Open the computer case.
    - Discharge static electricity by touching a grounded metal surface.
2. **Locate Memory Slots:** Identify the DIMM slots on your motherboard. These are typically long slots with clips on either end.
3. **Install the Module:**
    - Gently push open the clips at both ends of the DIMM slot.
    - Align the notch on the memory module with the key in the DIMM slot. The module will only fit one way.
    - Place the module into the slot and press down firmly and evenly on both ends until the clips snap into place, securing the module.

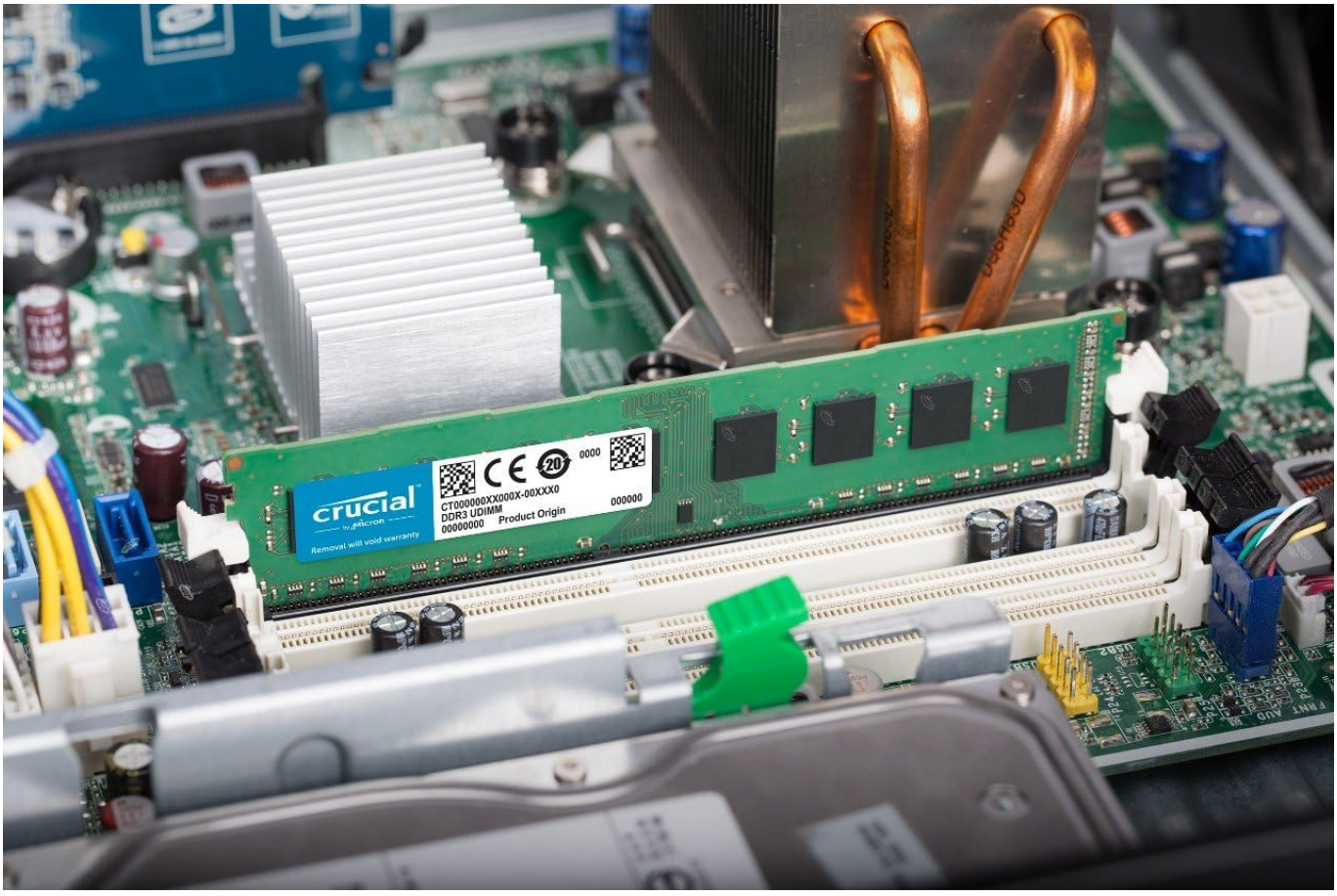


Image: A Crucial memory module correctly seated in a motherboard DIMM slot, with the retention clips closed.

3. Post-Installation

- **Close Case and Reconnect:** Close your computer case and reconnect all cables.
- **Power On:** Turn on your computer. The system should automatically detect the new memory.
- **Verify in BIOS/OS:**
    - Enter your system's BIOS/UEFI setup (usually by pressing DEL, F2, F10, or F12 during startup) to confirm the total installed memory.
    - Once in the operating system, check system properties to verify the recognized RAM amount.

Operating

Once installed, the Crucial memory module operates automatically with your system. No specific user interaction is required for its function. The operating system and applications will utilize the available memory as needed.

Maintenance

Crucial memory modules are designed for long-term reliability and generally require no maintenance. However, observe the following:

- **Cleaning:** If cleaning is necessary, use a soft, dry, lint-free cloth. Do not use liquid cleaners or solvents.
- **Environment:** Operate your computer in a clean, dust-free environment with stable temperature and humidity to prolong the life of all components, including memory.

Troubleshooting

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

- **System Not Booting/No Display:**
    - Ensure the memory module is fully seated in its slot and the clips are locked.
    - Try reseating the module.
    - If multiple modules are installed, try booting with only one module at a time to identify a potentially faulty module.
    - Check your motherboard manual for specific memory installation guidelines or error codes.
- **Incorrect Memory Amount Detected:**
    - Verify the module is correctly seated.
    - Check your BIOS/UEFI settings to ensure the memory is recognized.
    - Ensure your operating system is a 64-bit version to utilize more than 4GB of RAM.
- **System Instability/Crashes:**
    - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic, MemTest86) to check for errors.
    - Ensure your motherboard BIOS is up to date.

Specifications

Crucial 8GB DDR3 PC3-14900 UDIMM Memory Module (CT102464BD186D)

Brand	Crucial

Model Name	CT102464BD186D
Computer Memory Size	8 GB
RAM Memory Technology	DDR3
Memory Speed	1866 MHz
Form Factor	DIMM (UDIMM)
Number of Pins	240
Voltage	1.35 Volts
Column Address Strobe Latency (CL)	13
Error Checking	NON-ECC
Compatible Devices	PC/server
Item Weight	13.6 Grams
UPC	649528762580

Warranty and Support

Crucial memory products typically come with a limited lifetime warranty. For specific warranty details, terms, and conditions, please refer to the official Crucial website or the documentation included with your purchase.
For technical support, troubleshooting assistance, or further inquiries, please visit the official Crucial support website: www.crucial.com/support

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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