

tecmac 4GB 2x2GB DDR3 1333MHz NON ECC RAM

tecmac 4GB 2x2GB DDR3 RAM User Manual

Model: 4GB 2x2GB DDR3 1333MHz NON ECC RAM

Brand: tecmac

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your tecmac 4GB (2x2GB) DDR3 1333MHz NON ECC Memory RAM. This memory kit is designed for compatibility with various MSI Motherboards, including Z77A-GD55, Z77A-GD65, Z77A-GD80, Z77IA-E53, and A79. Please read this manual thoroughly before installation to ensure proper functionality and longevity of your product.

SETUP AND INSTALLATION

Pre-Installation Checks

- **Compatibility:** Verify that your motherboard supports DDR3 DIMM memory and the specified frequency (1333MHz or higher, as this RAM is backward compatible with 1066MHz). This RAM is compatible with MSI Motherboards Z77A-GD55, Z77A-GD65, Z77A-GD80, Z77IA-E53, and A79.
- **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet before beginning installation.
- **Static Discharge:** Ground yourself by touching an unpainted metal surface on your computer chassis to discharge any static electricity, which can damage electronic components. Consider using an anti-static wrist strap.
- **Locate RAM Slots:** Identify the DIMM slots on your motherboard. Refer to your motherboard's manual for specific slot configurations and recommended installation order for dual-channel memory.

Installation Steps

1. **Open Case:** Carefully open your computer's side panel to access the motherboard.
2. **Prepare Slots:** Gently push down the clips at both ends of the DIMM slot to open them.
3. **Insert RAM:** Align the notch on the RAM module with the key in the DIMM slot. Hold the module by its edges

and firmly press it straight down into the slot until the clips on both sides snap into place. Do not force the module if it does not fit; re-check alignment.

4. **Repeat for Second Module:** Install the second 2GB RAM module into the appropriate dual-channel slot as indicated by your motherboard manual.
5. **Secure Case:** Once both modules are securely installed, close your computer's side panel.
6. **Reconnect Power:** Plug your computer back into the power outlet and power it on.

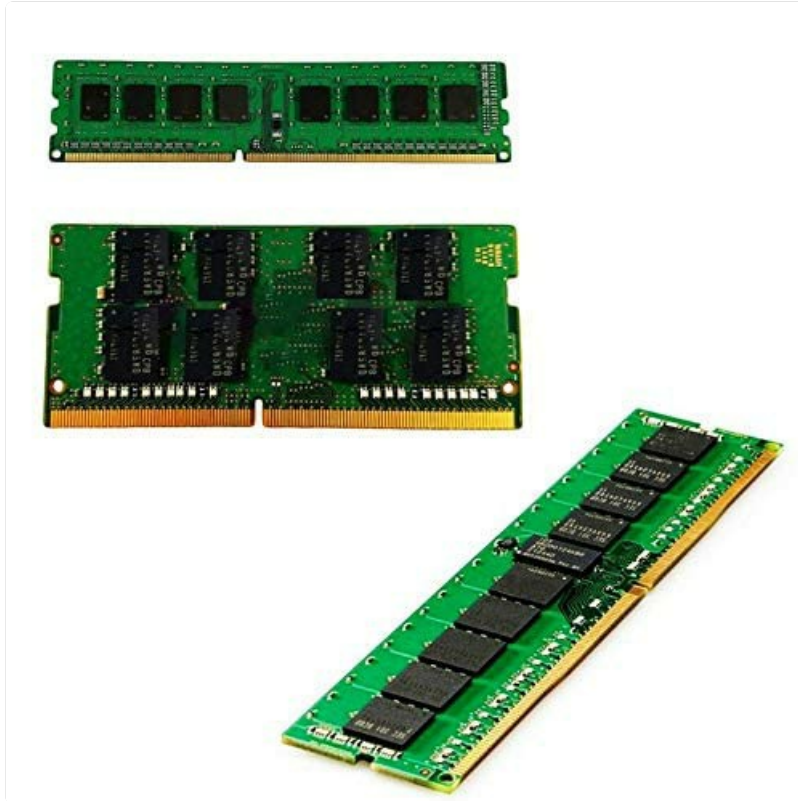


Image: Two tecmac 2GB DDR3 RAM modules. One module is shown from the top, displaying the memory chips, while the other is shown at an angle, highlighting the gold contacts and overall form factor.

OPERATING INSTRUCTIONS

Basic Functionality

Once installed, the tecmac DDR3 RAM modules operate automatically. Your computer's BIOS (Basic Input/Output System) will detect the new memory, and the operating system will utilize it for system processes and applications.

Verification

- **BIOS/UEFI:** Upon booting, you can enter your computer's BIOS/UEFI settings (usually by pressing DEL, F2, F10, or F12 during startup) to confirm that the total installed memory (4GB) is recognized.
- **Operating System:**
 - **Windows:** Right-click on "This PC" or "My Computer," select "Properties," and check the "Installed RAM" value.
 - **macOS:** Go to "Apple menu" > "About This Mac" and check the "Memory" information.
 - **Linux:** Open a terminal and use commands like `free -h` or `cat /proc/meminfo`.

MAINTENANCE

Cleaning

Memory modules generally require minimal maintenance. If dust accumulates on the modules or within the DIMM slots, use compressed air to gently blow it away. Do not use liquid cleaners or abrasive materials.

Handling Precautions

- Always handle memory modules by their edges to avoid touching the gold contacts or the memory chips.
- Store unused modules in an anti-static bag to protect them from static discharge and dust.
- Avoid exposing modules to extreme temperatures or humidity.

TROUBLESHOOTING

Common Issues and Solutions

- **Computer Does Not Boot / No Display:**
 - Ensure RAM modules are fully seated in their slots. Re-seat them firmly until the clips snap into place.
 - Try installing only one RAM module at a time to identify if one module is faulty.
 - Clear CMOS (Complementary Metal-Oxide-Semiconductor) settings on your motherboard (refer to your motherboard manual).
- **Incorrect Memory Detected (e.g., 2GB instead of 4GB):**
 - Verify both modules are correctly installed and detected in BIOS/UEFI.
 - Ensure your operating system is 64-bit to fully utilize 4GB or more RAM. 32-bit operating systems typically only recognize up to 3.5GB.
 - Check your motherboard's manual for specific dual-channel memory slot configurations.
- **System Instability / Blue Screens (BSOD):**
 - 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 | Detail |
|-----------------------|-------------------------------------|
| Brand | tecmac |
| Total Memory Capacity | 4GB (2 x 2GB modules) |
| Memory Type | DDR3 SDRAM |
| Form Factor | 240-pin DIMM |
| Memory Speed | 1333MHz (PC3-10600) |
| Error Correction | NON ECC (Non-Error Correcting Code) |

| Feature | Detail |
|---|--|
| Voltage | 1.2 Volts (Note: DDR3 typically operates at 1.5V or 1.35V. Please verify compatibility with your motherboard's Qualified Vendor List (QVL) if this voltage differs from standard.) |
| Compatibility | MSI Motherboards Z77A-GD55, Z77A-GD65, Z77A-GD80, Z77IA-E53, A79 (and other compatible DDR3 systems) |
| Max Memory Support (Motherboard) | Up to 32GB (across 4 sockets, for compatible motherboards) |

WARRANTY AND SUPPORT

Warranty Information

This tecmac memory module is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact tecmac directly. Keep your proof of purchase for warranty claims.

Technical Support

For any technical assistance, pre-sales inquiries, order-related queries, or warranty support, please contact the manufacturer or authorized distributor using the details below:



Image: Contact details for Shop The World, the packer/importer for tecmac products. It displays an email address (care@shoptheworld.in), WhatsApp number (+91 9820168421), and website (https://shoptheworld.in/).

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