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› eMachines EI1358 (MB.NBT01.001) AM2 Desktop Motherboard User Manual

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Model: EI1358 (MB.NBT01.001)

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your eMachines EI1358 (MB.NBT01.001) AM2 Desktop Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and to prevent damage to your components. This motherboard is designed for personal computer systems, supporting Socket AM2 CPUs.



Figure 1: Overview of the eMachines EI1358 (MB.NBT01.001) AM2 Desktop Motherboard. This image displays the top-down view of the motherboard, highlighting its various components such as the CPU socket, RAM slots, PCIe slots, and I/O ports.

2. SETUP AND INSTALLATION

2.1. Safety Precautions

- Always disconnect the power supply from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components.
- Handle components by their edges and avoid touching pins or connectors.
- Ensure proper ventilation in your computer case.

2.2. Pre-Installation Checklist

Before beginning installation, ensure you have the following components:

- eMachines EI1358 (MB.NBT01.001) Motherboard
- Compatible CPU (Socket AM2)
- Compatible DDR2 Memory Modules (2133 MHz recommended)
- CPU Cooler
- Power Supply Unit (PSU) with 24-Pin main power connector
- Storage Devices (HDD/SSD)
- Graphics Card (PCI Express, if not using integrated graphics)
- Computer Case
- Screwdriver and other necessary tools

2.3. Motherboard Layout



Figure 2: Diagram illustrating key components and connectors on the eMachines EI1358 Motherboard. This includes the CPU socket, DIMM slots, PCIe slots, SATA ports, USB headers, and front panel connectors. Refer to this diagram for component identification during installation.

2.4. Component Installation Steps

1. Install the CPU:

- Open the CPU socket lever.

- Carefully align the CPU with the socket, ensuring the gold triangle on the CPU matches the mark on the socket.
- Gently place the CPU into the socket without forcing it.
- Close the socket lever to secure the CPU.

2. Install the CPU Cooler:

- Apply thermal paste to the CPU if not pre-applied on the cooler.
- Mount the CPU cooler according to its manufacturer's instructions.
- Connect the CPU fan cable to the "CPU_FAN" header on the motherboard.

3. Install Memory Modules (RAM):

- Open the clips on both ends of the DIMM slots.
- Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
- Press down firmly on both ends of the module until the clips snap into place.

4. Mount the Motherboard:

- Install the I/O shield into the computer case.
- Place the motherboard into the case, aligning the screw holes with the standoffs.
- Secure the motherboard with screws.

5. Install Expansion Cards:

- Insert your PCI Express graphics card or other expansion cards into the appropriate slots.
- Secure them with screws or retention clips.

6. Connect Power Cables:

- Connect the 24-Pin ATX main power connector from the PSU to the motherboard.
- Connect the 4-Pin or 8-Pin ATX 12V CPU power connector.

7. Connect Storage Devices:

- Connect SATA data cables from your storage devices (HDD/SSD) to the SATA ports on the motherboard.
- Connect SATA power cables from the PSU to the storage devices.

8. Connect Front Panel Connectors:

- Connect the power button, reset button, HDD LED, power LED, and front panel USB/audio headers to their respective pins on the motherboard. Refer to the motherboard layout diagram for pin assignments.

3. OPERATING INSTRUCTIONS

3.1. Initial Boot

After completing all hardware installations, connect your monitor, keyboard, and mouse. Power on the system. The system should perform a Power-On Self-Test (POST) and display the BIOS/UEFI splash screen.

3.2. Accessing BIOS/UEFI Setup

To enter the BIOS/UEFI setup utility, press the designated key (commonly **DEL**, **F2**, **F10**, or **F12**) repeatedly during the initial boot sequence. Consult your system's documentation or the on-screen prompts for the exact key.

- **Boot Order:** Configure the boot order to install your operating system from a USB drive or optical disc.
- **System Time/Date:** Set the correct system time and date.
- **SATA Mode:** Ensure the SATA mode (e.g., AHCI) is correctly configured for your storage devices.

3.3. Operating System and Driver Installation

Install your preferred operating system. After the OS installation, install the necessary drivers for the motherboard's chipset, audio, network, and any discrete graphics cards. Drivers are typically available on the eMachines support website or the component manufacturer's website.

4. MAINTENANCE

4.1. Cleaning

Regularly clean the interior of your computer case to prevent dust buildup, which can lead to overheating. Use compressed air to remove dust from fans, heatsinks, and motherboard components. Ensure the system is powered off and unplugged before cleaning.

4.2. BIOS/UEFI Updates

BIOS/UEFI updates can provide improved compatibility, stability, and new features. Only update the BIOS/UEFI if necessary and follow the instructions provided by eMachines precisely. Incorrect updates can render the motherboard inoperable.

5. TROUBLESHOOTING

This section addresses common issues you might encounter.

5.1. No Power / No Boot

- **Check Power Connections:** Ensure all power cables (24-Pin ATX, 4/8-Pin CPU) are securely connected to the motherboard and PSU.
- **PSU Functionality:** Verify the power supply unit is working correctly.
- **Front Panel Connections:** Double-check that the power button cable is correctly connected to the motherboard's front panel header.
- **Minimal Boot:** Remove all non-essential components (graphics card, extra RAM, storage drives) and attempt to boot with only the CPU, one RAM stick, and the CPU cooler.

5.2. No Display Output

- **Monitor Connection:** Ensure the monitor is properly connected to the graphics output (either integrated or discrete graphics card).
- **Graphics Card:** If using a discrete graphics card, ensure it is fully seated in its PCIe slot and any necessary PCIe power cables are connected.
- **RAM:** Reseat the RAM modules. Faulty or improperly seated RAM can prevent display output.

5.3. System Instability / Crashes

- **Overheating:** Monitor CPU and GPU temperatures. Ensure CPU cooler is properly installed and case fans are functioning.
- **RAM Issues:** Run a memory diagnostic tool (e.g., MemTest86) to check for faulty RAM.
- **Driver Issues:** Ensure all drivers are up-to-date and correctly installed.
- **Power Supply:** An insufficient or failing power supply can cause instability.

6. SPECIFICATIONS

Below are the technical specifications for the eMachines EI1358 (MB.NBT01.001) Motherboard:

Feature	Specification
Brand	eMachines
Model Number	MB.NBT01.001
Model Name	EI1358
CPU Socket	Socket AM2
Compatible Processors	Intel Core 2 DUO (<i>Note: This specification appears to be a mismatch with the AMD AM2 socket. Please verify CPU compatibility with eMachines support.</i>)
Chipset Type	AMD 785E
Memory Slots Available	2
Memory Clock Speed	2133 MHz
Graphics Card Interface	PCI Express
Total PCIe Ports	2
Main Power Connector Type	24-Pin
System Bus Standard Supported	SATA 2
Total SATA Ports	4
Total USB Ports	6
S/PDIF Connector Type	Optical
Compatible Devices	Personal Computer

Note: Specifications are subject to change without notice. For the most up-to-date information, please refer to the official eMachines product page or contact support.

7. WARRANTY AND SUPPORT

7.1. Warranty Information

eMachines products are covered by a limited warranty. The duration and terms of the warranty may vary by region and product. Please retain your proof of purchase for warranty claims. For detailed warranty information, visit the official eMachines website or contact your local retailer.

7.2. Technical Support

If you encounter issues that cannot be resolved using this manual, please contact eMachines technical support. Before contacting support, have your motherboard model number (EI1358, MB.NBT01.001) and a detailed description of the problem ready. Support resources may include:

- Online knowledge base and FAQs
- Driver and BIOS download sections
- Customer service hotlines

- Email support

For the most current support contact information, please visit the official eMachines website.

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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

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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