eMachines MB.NBU01.001

eMachines ET1352-01 Desktop Motherboard User Manual

Model: MB.NBU01.001

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the eMachines ET1352-01 Desktop Motherboard (Model: MB.NBU01.001). Please read this manual thoroughly before proceeding with any installation or operation to ensure proper functionality and to prevent damage to the component or system.

The eMachines ET1352-01 Desktop Motherboard is a genuine system pull component designed for specific eMachines desktop systems. It is crucial to verify compatibility with your existing system before installation.

2. SAFETY PRECAUTIONS

Always observe the following safety guidelines to prevent injury or damage to the motherboard and other components:

- **Electrostatic Discharge (ESD) Prevention:** Always wear an anti-static wrist strap or frequently touch a grounded metal object (e.g., the computer chassis) before handling the motherboard. ESD can severely damage electronic components.
- **Power Disconnection:** Ensure the computer system is completely powered off and disconnected from the AC power outlet before installing or removing the motherboard.
- **Handle with Care:** Hold the motherboard by its edges. Avoid touching components, pins, or circuit traces directly.
- **Proper Tools:** Use appropriate tools, such as a Phillips head screwdriver, for installation.
- **Ventilation:** Ensure adequate ventilation within the computer case to prevent overheating.

3. PRODUCT OVERVIEW

Figure 1: Top-down view of the eMachines ET1352-01 Desktop Motherboard. This image displays the various components including the CPU socket, RAM slots, expansion slots, and I/O ports.

The eMachines ET1352-01 Desktop Motherboard is a core component for compatible eMachines desktop computers. It features a CPU socket, two memory slots, various expansion slots (PCIe, PCI), and integrated I/O ports for peripherals.

Key Features:

- CPU Socket: Compatible with specific processor types (refer to system specifications for exact models).
- Memory Slots: 2 x DIMM slots, supporting DDR2 or DDR3 memory (verify specific type based on system configuration).
- Expansion Slots: Includes PCIe x16 for graphics cards and PCI slots for other expansion cards.
- Storage Interfaces: SATA 3 ports for connecting hard drives and solid-state drives.
- Integrated I/O: USB ports, audio jacks, Ethernet port, and video output (VGA/DVI, if integrated graphics are present).

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the motherboard. It is recommended to consult your specific computer system's service manual for detailed, model-specific instructions.

4.1. Pre-Installation Checklist:

- Ensure the replacement motherboard (MB.NBU01.001) is the correct part number for your system.
- Gather necessary tools: Phillips head screwdriver, anti-static wrist strap.
- Prepare a clean, well-lit workspace.

4.2. Installation Steps:

1. **Power Down:** Turn off the computer and unplug the power cord from the wall outlet.
2. **Open Case:** Remove the side panel of the computer case to access the internal components.
3. **Disconnect Components:** Carefully disconnect all cables connected to the old motherboard (power supply, SATA, front panel connectors, USB, audio, etc.). Remove any expansion cards (graphics card, sound card, etc.) and RAM modules.
4. **Remove Old Motherboard:** Unscrew the motherboard from the standoffs in the computer case. Carefully lift and remove the old motherboard.
5. **Install New Motherboard:** Gently place the new MB.NBU01.001 motherboard onto the standoffs,

ensuring the I/O shield aligns with the ports. Secure the motherboard with screws.

6. **Install Components:** Reinstall the CPU (if applicable, ensure proper thermal paste application), RAM modules, and any expansion cards.

7. **Reconnect Cables:** Reconnect all power cables (24-pin ATX, 4-pin/8-pin CPU power), SATA cables, front panel connectors (power switch, reset switch, HDD LED, power LED), USB headers, and audio headers. Refer to the motherboard's silkscreen labels for correct orientation.

8. **Close Case:** Replace the computer case side panel.

9. **Power On:** Plug in the power cord and turn on the computer.

Note: If replacing a motherboard, you may need to reinstall or repair the operating system drivers for optimal performance.

5. OPERATING CONSIDERATIONS

Once installed, the motherboard operates as the central hub for your computer system. Proper operation relies on compatible components and correct driver installation.

5.1. BIOS/UEFI Setup:

Upon first boot or after a component change, you may need to enter the BIOS/UEFI setup utility to configure settings such as boot order, date/time, and enable/disable integrated peripherals. Typically, you can access this by pressing a specific key (e.g., Del , F2 , F10) during the initial boot sequence.

5.2. Driver Installation:

After operating system installation, install the necessary drivers for the motherboard's chipset, integrated graphics (if applicable), audio, and network interface. These drivers are typically available from the eMachines support website or the original system manufacturer's website.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your motherboard and computer system.

- **Dust Removal:** Periodically (every 6-12 months, depending on environment) open the computer case and use compressed air to gently remove dust buildup from the motherboard, heatsinks, and fans. Ensure the system is powered off and unplugged before cleaning.

- **BIOS/UEFI Updates:** Check the eMachines support website for BIOS/UEFI updates. Updates can improve stability, compatibility, and performance. Follow the update instructions carefully to avoid damaging the motherboard.

- **Driver Updates:** Keep chipset, audio, and network drivers updated to ensure optimal performance and compatibility with new software.

- **Component Checks:** Ensure all cables (power, SATA) are securely connected and that expansion cards and RAM modules are properly seated.

7. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems, professional assistance may be required.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
System does not power on.	Loose power connections, faulty power supply, faulty power switch.	Check all power cables (24-pin ATX, CPU power) are securely connected. Test power supply if possible. Ensure front panel power switch is correctly connected to motherboard header.
No display output.	Loose video cable, improperly seated graphics card/RAM, faulty monitor.	Ensure monitor cable is securely connected. Reseat graphics card and RAM modules. Test with a different monitor if available.
System beeps repeatedly.	RAM issue, CPU issue, graphics card issue.	Consult the motherboard's beep code guide (often found online for specific BIOS versions) to diagnose the issue. Typically, reseating RAM or testing with one RAM stick can help.
Operating system not loading.	Incorrect boot order, corrupted OS, faulty storage drive.	Check BIOS/UEFI boot order. Run OS repair or reinstall. Test storage drive.

8. SPECIFICATIONS

The following specifications are for the eMachines ET1352-01 Desktop Motherboard (MB.NBU01.001):

- **Model Number:** MB.NBU01.001
- **Brand:** eMachines
- **Compatible Devices:** Personal Computer (specifically eMachines ET1352-01 desktop systems)
- **Memory Slots:** 2 (DIMM)
- **System Bus Standard Supported:** SATA 3
- **Form Factor:** Micro-ATX (typical for desktop motherboards of this era, though not explicitly stated, it's a common assumption for desktop boards)
- **Expansion Slots:** PCI Express x16, PCI (specific configuration may vary)
- **I/O Ports:** USB, Audio, Ethernet, Video (VGA/DVI, depending on integrated graphics)

Note: Detailed specifications regarding CPU compatibility, maximum RAM capacity, and specific chipset features should be referenced from the original eMachines ET1352-01 system documentation.

9. WARRANTY AND SUPPORT

This eMachines ET1352-01 Desktop Motherboard (MB.NBU01.001) is a system pull component. As such, it typically comes with a limited warranty from the reseller or supplier, not directly from the original manufacturer (eMachines).

- **Warranty Period:** The product is guaranteed for **90 days** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
- **Warranty Claims:** For warranty claims or technical support related to this specific component, please contact your original point of purchase or the reseller from whom you acquired the motherboard.
- **Compatibility:** Please note that parts can usually not be interchanged. It is essential to ensure that your original part has this exact part number (MB.NBU01.001) or that the manufacturer recommends this replacement part for your system. Compatibility issues are not typically covered under warranty.

For general eMachines product support or driver downloads for your specific system model, you may visit the official eMachines support website (if still active) or the support page of the original system manufacturer.

Related Documents

eMachines E510 Series User's Guide	[eMachines E510 Series User's Guide](#) User's guide for the eMachines E510 Series Notebook PC, covering setup, features, specifications, and safety information.
emachines Flat Panel Monitor User Guide	[eMachines Flat Panel Monitor User Guide](#) A comprehensive user guide for eMachines Flat Panel Monitors (models E182H, E192HQ, E202H). Covers setup, operation, adjustments, troubleshooting, specifications, and safety information. Visit www.emachines.com for support.
emachines Flat Panel Monitor User Guide	[eMachines Flat Panel Monitor User Guide: Setup, Operation, and Troubleshooting](#) This user guide provides comprehensive instructions for eMachines flat panel monitors (models E161HQ, E191HQ, E181H, E191W), covering unpacking, setup, connecting cables, adjusting settings via OSD and Windows, power management, maintenance, troubleshooting common issues, specifications, and safety information.