

ASUS M4A88T-V EVO/USB3

ASUS M4A88T-V EVO/USB3 Motherboard User Manual

Comprehensive guide for installation, operation, and maintenance.

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1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and maintenance of your ASUS M4A88T-V EVO/USB3 Motherboard. This ATX form factor motherboard supports AMD AM3 processors and features an AMD 880G chipset with integrated ATI Radeon HD4250 graphics, HDMI, and USB 3.0 connectivity. Please read this manual thoroughly before proceeding with installation.



Figure 1: Top-down view of the ASUS M4A88T-V EVO/USB3 Motherboard, highlighting the CPU socket, RAM slots, and various expansion slots.

2. SETUP AND INSTALLATION

2.1 Package Contents

Verify that all components are present in the package:

- ASUS M4A88T-V EVO/USB3 Motherboard
- I/O Shield
- SATA Data Cables
- IDE/PATA Cable
- User Guide
- Support DVD (containing drivers and utilities)



Figure 2: The ASUS M4A88T-V EVO/USB3 Motherboard with its standard accessories, including SATA cables, an IDE cable, the I/O shield, and documentation.

2.2 Pre-Installation Checklist

- Compatible CPU (Socket AM3, AMD Phenom II/Athlon II/Sempron 100 Series Processors)
- DDR3 RAM modules (up to 16GB, 2000(O.C.)/1333/1066 MHz)
- ATX compatible PC case
- Power Supply Unit (PSU) with 24-pin main power and 8-pin CPU power connectors
- Storage devices (HDD/SSD)
- Graphics card (optional, if not using integrated graphics)

2.3 Motherboard Layout



Figure 3: An angled view of the motherboard, showcasing the rear I/O panel, expansion slots, and memory DIMM slots.

Familiarize yourself with the various connectors and components on the motherboard:

- **CPU Socket AM3:** For AMD Phenom II/Athlon II/Sempron 100 Series Processors.
- **DDR3 DIMM Slots:** Four slots supporting up to 16GB of DDR3 memory.
- **PCI-Express 2.0 x16 Slots:** Two slots for graphics cards (one runs at x4 mode, supports ATI CrossFireX).
- **PCI-Express 2.0 x1 Slots:** One slot for expansion cards.
- **PCI Slots:** Three standard PCI slots.
- **SATA2 Ports:** Five ports supporting RAID 0, 1, 10, and JBOD.
- **IDE/ATA-133 Channel:** One channel for older IDE devices.
- **Rear I/O Ports:** Includes USB 2.0, USB 3.0, PS/2, VGA, DVI, HDMI, eSATA2, IEEE1394, Optical S/PDIF-Out, RJ45 LAN, and Audio Jacks.

2.4 Installation Steps

1. **Prepare the Case:** Install the I/O shield into the rear panel opening of your PC case.
2. **Install the CPU:** Carefully place the CPU into the Socket AM3, ensuring correct orientation. Secure the CPU retention lever.
3. **Install the CPU Cooler:** Attach the CPU cooler according to its manufacturer's instructions.
4. **Install Memory:** Insert DDR3 memory modules into the DIMM slots, pressing firmly until the clips lock into place.
5. **Mount Motherboard:** Align the motherboard with the standoffs in the PC case and secure it with screws.
6. **Connect Power:** Connect the 24-pin main power connector and the 8-pin CPU power connector from the PSU to the motherboard.
7. **Connect Storage Devices:** Connect SATA data cables to your hard drives/SSDs and the motherboard's SATA ports. Connect the IDE cable if using an IDE device.
8. **Install Expansion Cards:** Insert graphics cards into the PCI-Express x16 slots and other expansion cards into the appropriate slots.
9. **Connect Front Panel Cables:** Connect the power button, reset button, HDD LED, power LED, and front panel

USB/audio headers to the corresponding pins on the motherboard. Refer to the motherboard diagram for pin locations.

3. OPERATION

3.1 Initial Boot-Up and BIOS Setup

Upon the first power-on, the system will typically enter the BIOS (Basic Input/Output System) setup utility. Press the **DEL** key during POST (Power-On Self-Test) to access the BIOS.

- **Date and Time:** Set the correct system date and time.
- **Boot Order:** Configure the boot device priority (e.g., ODD, USB, HDD).
- **SATA Configuration:** Set SATA mode (AHCI, IDE, RAID) as required for your storage devices.
- **Memory Settings:** Verify memory frequency and timings.
- **Integrated Graphics:** Configure integrated ATI Radeon HD4250 settings or disable if using a discrete graphics card.
- **Save and Exit:** Save changes and exit the BIOS to boot into your operating system installation media.

3.2 Driver Installation

After installing your operating system, install the necessary drivers from the provided Support DVD or download the latest versions from the ASUS official website. Key drivers include:

- Chipset Drivers (AMD 880G/SB710)
- Graphics Drivers (ATI Radeon HD4250)
- Audio Drivers (ALC892 8-Channel HD Audio)
- LAN Drivers (Gigabit Ethernet)
- USB 3.0 Drivers

4. MAINTENANCE

4.1 BIOS Updates

Regularly check the ASUS support website for BIOS updates. BIOS updates can improve system stability, add support for new CPUs, or fix bugs. Follow the instructions provided by ASUS carefully when updating the BIOS to avoid system damage.

4.2 Cleaning

Periodically clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning. Avoid using liquids or abrasive materials.

5. TROUBLESHOOTING

This section addresses common issues you might encounter.

5.1 No Power / No POST

- **Check Power Connections:** Ensure the 24-pin main power and 8-pin CPU power connectors are securely seated.
- **Verify PSU:** Test the Power Supply Unit (PSU) with another system or a PSU tester.
- **Reseat Components:** Reseat the CPU, RAM, and any expansion cards.

- **Clear CMOS:** Refer to the motherboard's detailed user manual for instructions on how to clear the CMOS (Complementary Metal-Oxide-Semiconductor) settings, which can resolve boot issues.

5.2 Display Issues

- **Monitor Connection:** Ensure the monitor cable is securely connected to the correct video output port (VGA, DVI, or HDMI).
- **Integrated vs. Discrete Graphics:** If using a discrete graphics card, ensure the monitor is connected to it, not the motherboard's integrated ports. Check BIOS settings to ensure the correct graphics output is prioritized.
- **Driver Installation:** Verify that graphics drivers are correctly installed.

5.3 USB 3.0 Devices Not Detected

- **Driver Installation:** Ensure USB 3.0 drivers are installed.
- **BIOS Settings:** Check BIOS settings for USB controller configuration.
- **Compatibility:** Some older USB 3.0 devices may require specific drivers or firmware updates.

6. SPECIFICATIONS

Feature	Detail
Model Name	M4A88T-V EVO/USB3
CPU Socket	Socket AM3 (Supports AMD Phenom II/Athlon II/Sempron 100 Series Processors, up to 140W CPU)
Chipset	AMD 880G / SB710
Memory	4x DDR3 DIMM slots, Dual Channel, ECC/Non-ECC, Un-buffered, Max 16GB (2000(O.C.)/1333/1066 MHz)
Graphics	Integrated ATI Radeon HD4250 (128MB DDR3-1333 onboard memory), supports ATI CrossFireX & Hybrid CrossFireX Technology
Expansion Slots	2x PCI-Express 2.0 x16 (one x16, one x4), 1x PCI-Express 2.0 x1, 3x PCI
Storage	5x SATA2 ports (RAID 0, 1, 10, JBOD), 1x eSATA2 port, 1x ATA-133 IDE channel
Audio	ALC892 8-Channel High Definition Audio CODEC
LAN	Gigabit LAN
USB Ports	10x USB 2.0 (4 rear, 6 via headers), 2x USB 3.0 (rear)
Rear I/O Ports	PS/2, VGA, DVI, HDMI, eSATA2, IEEE1394, Optical S/PDIF-Out, RJ45 LAN, Audio Jacks
Form Factor	ATX (13.2 x 10.5 x 2.7 inches)
Weight	3 pounds

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This ASUS motherboard comes with a limited warranty. Please refer to the warranty card included in your product package or visit the official ASUS website for detailed warranty terms and conditions specific to your region. Keep your proof of purchase for warranty claims.

7.2 Technical Support

For technical assistance, driver downloads, BIOS updates, and FAQs, please visit the official ASUS support website. You can also contact ASUS customer service directly through their website or the contact information provided in your product documentation.

ASUS Support Website: <https://www.asus.com/support/>



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