

ECS Elitegroup P4M800-M7

ECS P4M800-M7 Motherboard User Manual

Model: P4M800-M7

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the ECS P4M800-M7 motherboard. The P4M800-M7 is designed to support Socket LGA775 Intel Pentium 4 / Pentium D / Celeron D Processors with FSB 800/533 MHz and Hyper-Threading Technology.

Key features include 64-bit support, FSB 800MHz, RAID0, RAID1, and Serial ATA capabilities.

PRODUCT OVERVIEW



Figure 1: ECS P4M800-M7 Motherboard Layout. This image displays the main components of the motherboard, including the CPU socket (LGA 775), two DDR RAM slots, PCI and AGP expansion slots, and various I/O ports.



Figure 2: ECS P4M800-M7 Retail Box. The product packaging indicates support for Intel Pentium 4 processors, embedded graphics, and DDR400 memory, along with the LGA 775 socket type.

SETUP AND INSTALLATION

Follow these steps for proper installation of the ECS P4M800-M7 motherboard into your computer system.

1. Prepare Your System

- Ensure your power supply is disconnected from the wall outlet.
- Discharge any static electricity by touching a grounded metal object.

2. Install the CPU

1. Open the CPU socket lever.
2. Carefully align the CPU (Intel Pentium 4 / Pentium D / Celeron D) with the socket, ensuring the notches match.
3. Gently lower the CPU into the socket. Do not force it.
4. Close the socket lever to secure the CPU.
5. Apply a thin layer of thermal paste to the CPU surface.
6. Install the CPU cooler according to its manufacturer's instructions.

3. Install Memory Modules

The motherboard supports DDR memory. Insert DDR modules into the available memory slots (2 slots).

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

4. Mount the Motherboard

1. Install standoffs in your PC case that align with the motherboard's mounting holes.
2. Carefully place the motherboard onto the standoffs, aligning the I/O shield with the case opening.
3. Secure the motherboard with screws.

5. Connect Power and Peripherals

Connect the 20-pin ATX main power connector and the 4-pin ATX 12V power connector from your power supply to the motherboard. Connect SATA and IDE devices, front panel connectors, and expansion cards as needed.

OPERATING INSTRUCTIONS

Once the motherboard is installed and all components are connected, you can proceed with system operation.

1. Initial Boot-up

After connecting the power supply and monitor, power on your system. The system should display the BIOS POST screen. Press the designated key (usually **DEL** or **F2**) to enter the BIOS setup utility.

2. BIOS Configuration

In the BIOS, you can configure various system settings, including boot order, date/time, and hardware parameters. Refer to the BIOS section of the full manual for detailed settings. Save changes and exit the BIOS to continue.

3. Operating System Installation

Insert your operating system installation media (e.g., Windows CD/DVD) and follow the on-screen prompts to install the OS. Ensure all necessary drivers (chipset, audio, network, graphics) are installed after the OS installation for optimal performance. Drivers are typically provided on a CD with the motherboard or can be downloaded from the ECS Elitegroup website.

MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your motherboard.

- Dust Removal:** Regularly clean dust from inside your computer case, especially from heatsinks and fans, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- Cable Management:** Ensure internal cables are neatly routed to allow for proper airflow.
- BIOS Updates:** Periodically check the ECS Elitegroup website for BIOS updates. Only update the BIOS if necessary and follow the instructions precisely to avoid system instability.
- Driver Updates:** Keep your device drivers updated to ensure compatibility and performance.

TROUBLESHOOTING

This section addresses common issues you might encounter with the ECS P4M800-M7 motherboard.

Problem	Possible Cause	Solution
System does not power on.	Power cables not connected, faulty power supply, or short circuit.	Check all power connections (20-pin ATX, 4-pin 12V). Test power supply. Ensure no metal objects are touching the motherboard.
No display on monitor.	Monitor cable loose, faulty graphics card (if external), or RAM not seated correctly.	Verify monitor cable connection. Reseat RAM modules. If using an external graphics card, ensure it is properly seated and powered.

Problem	Possible Cause	Solution
System freezes or crashes.	Overheating, unstable drivers, or faulty RAM.	Check CPU and chipset temperatures. Update drivers. Test RAM modules individually.
Operating system not found.	Incorrect boot order in BIOS, or hard drive not detected.	Enter BIOS and set the correct boot order. Check SATA/IDE cable connections to the hard drive.

SPECIFICATIONS

Feature	Detail
Manufacturer	ECS
Model Number	P4M800-M7
CPU Socket	LGA 775
Compatible Processors	Intel Celeron D, Intel Pentium 4, Intel Pentium
Chipset Type	Intel
Memory Slots Available	2
System Bus Standard Supported	SATA 3
FSB Support	800/533 MHz
Hyper-Threading Technology	Supported
RAID Support	RAID0, RAID1
UPC	881038001678
Date First Available	April 5, 2006

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official ECS Elitegroup website. Warranty terms and conditions may vary by region and retailer.

Official ECS Elitegroup Website: [ECS Elitegroup Store on Amazon](#) (Note: This link directs to the brand's store page on Amazon, where further support information might be available.)