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ECS Elitegroup 945GCT-M/1333(V3.0)

ECS Elitegroup 945GCT-M/1333(V3.0) Motherboard User Manual

Model: 945GCT-M/1333(V3.0)

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ECS Elitegroup 945GCT-M/1333(V3.0) motherboard. This motherboard is designed to support Intel FSB1333 MHz processors and features the Intel 945GC and ICH7 chipsets, offering a reliable foundation for your computing needs. Please read this manual thoroughly before proceeding with installation.

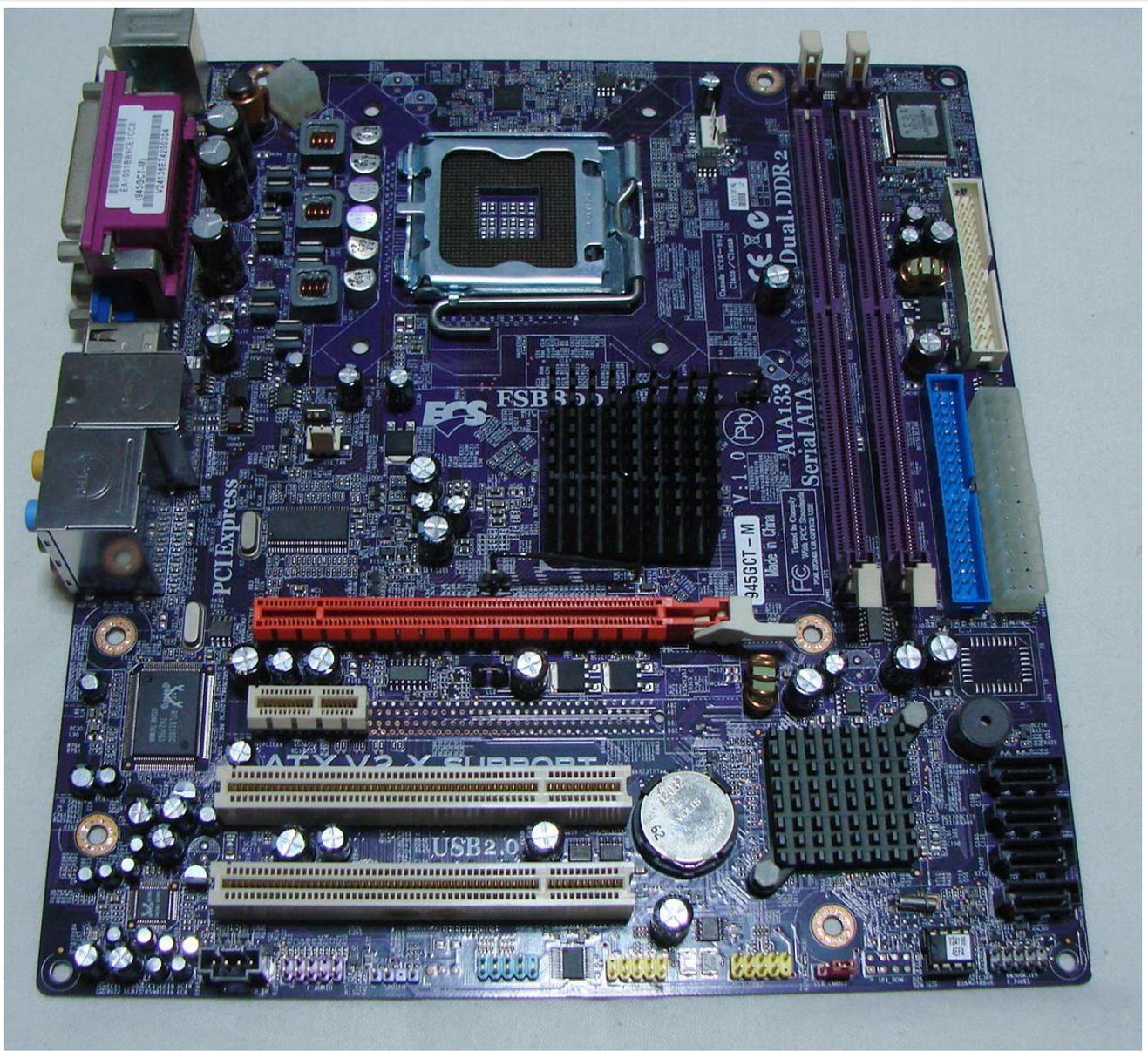


Figure 1: Overview of the ECS Elitegroup 945GCT-M/1333(V3.0) Motherboard. This image displays the general layout of the motherboard, including CPU socket, RAM slots, and various connectors.

SETUP AND INSTALLATION

Proper installation is crucial for the stable operation of your system. Ensure you have a static-free environment and handle components with care.

1. Preparing the Motherboard

- **Unpacking:** Carefully remove the motherboard from its anti-static packaging. Place it on a non-conductive, flat surface.
- **CPU Installation:** Open the LGA 775 CPU socket lever. Align the CPU with the socket, ensuring the notches match. Gently place the CPU into the socket without force. Close the lever to secure the CPU. Apply a thin, even layer of thermal paste to the CPU's surface.
- **CPU Cooler Installation:** Mount the CPU cooler according to its manufacturer's instructions, ensuring proper contact with the CPU and secure attachment to the motherboard.
- **Memory (RAM) Installation:** Open the clips on both ends of the DDR3 memory 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 until the clips snap into place.

2. Installing into the Chassis

- **Mounting:** Install the necessary standoffs in your computer case that align with the motherboard's mounting holes. Carefully place the motherboard onto the standoffs and secure it with screws. Do not overtighten.
- **Connecting Power:** Connect the 24-pin ATX main power connector and the 4-pin ATX 12V power connector from your power supply to the corresponding sockets on the motherboard.
- **Front Panel Connectors:** Connect the power switch, reset switch, HDD LED, and power LED cables from your chassis front panel to the designated pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.
- **USB and Audio Connectors:** Connect the front panel USB and audio cables to their respective headers on the motherboard.
- **Storage Devices:** Connect SATA data cables from your hard drives or SSDs to the SATA ports on the motherboard. Connect the power cables from your power supply to these devices.
- **Expansion Cards:** If installing a discrete graphics card or other PCI/PCIe expansion cards, insert them firmly into the appropriate slots and secure them with the case's retention mechanism.

OPERATING INSTRUCTIONS

Once all components are installed and connected, you can proceed with initial power-on and operating system installation.

1. Initial Power-On and BIOS Setup

- **First Boot:** Connect a monitor, keyboard, and mouse. Power on your system. The system should display the BIOS POST screen.
- **Accessing BIOS:** During POST, press the **DEL** key (or as indicated on screen) to enter the BIOS Setup Utility.
- **Basic Configuration:** In the BIOS, set the correct date and time. Verify that all installed components (CPU, RAM, storage) are detected correctly. Configure the boot order to prioritize your operating system installation media (e.g., USB drive or DVD-ROM).
- **Save and Exit:** Save your changes and exit the BIOS. The system will restart.

2. Operating System and Driver Installation

- **OS Installation:** Insert your operating system installation media. Follow the on-screen prompts to install your preferred operating system (e.g., Windows Vista, as supported by this platform).
- **Driver Installation:** After the operating system is installed, install the necessary drivers for the motherboard's chipsets, audio, network, and integrated graphics. These drivers are typically provided on a support CD or can be downloaded from the ECS Elitegroup website.
- **System Updates:** Ensure your operating system and drivers are kept up-to-date for optimal performance and security.

MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from the CPU cooler, chipset heatsinks, and fan vents. Use compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the ECS Elitegroup support website for BIOS updates. BIOS updates can improve compatibility, stability, and performance. Follow the provided instructions carefully when updating the BIOS to avoid system damage.

- **Driver Updates:** Keep your motherboard drivers (chipset, audio, network, graphics) updated to the latest versions available from the ECS Elitegroup website or component manufacturers.
- **Cable Management:** Ensure internal cables are neatly routed to improve airflow and prevent interference.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Common Issues and Solutions:

- **No Power/No Boot:**
 - Ensure all power cables (24-pin ATX, 4-pin 12V CPU) are securely connected.
 - Verify the power supply is switched on and functioning.
 - Check front panel power switch connection to the motherboard.
- **No Display:**
 - Ensure the monitor is connected to the correct video output (integrated or discrete graphics card).
 - Reseat the graphics card (if applicable) and RAM modules.
 - Try booting with only one RAM module installed.
- **System Instability/Crashes:**
 - Check CPU and GPU temperatures to ensure they are not overheating.
 - Verify RAM modules are properly seated and not faulty (test with one module at a time).
 - Ensure all drivers are correctly installed and up-to-date.
 - Run a memory diagnostic tool.
- **Peripheral Not Detected:**
 - Ensure the device is properly connected.
 - Check device manager in your operating system for driver issues.
 - Test the device on another port or another computer if possible.

BIOS Reset:

If you encounter issues after changing BIOS settings, you can reset the BIOS to default settings. Power off the system, unplug the power cord, and locate the Clear CMOS jumper on the motherboard (refer to the motherboard diagram). Move the jumper to the 'Clear' position for 5-10 seconds, then return it to the 'Normal' position. Alternatively, remove the CMOS battery for a few minutes and then reinsert it.

SPECIFICATIONS

Detailed technical specifications for the ECS Elitegroup 945GCT-M/1333(V3.0) motherboard.

Feature	Specification
Brand	ECS Elitegroup
Model	945GCT-M/1333(V3.0)
Form Factor	Micro ATX

Feature	Specification
Chipset	Intel 945GC & ICH7
CPU Socket	LGA 775
Compatible Processors	Intel FSB1333 MHz Processors, Intel 945GC compatible
RAM Memory Technology	DDR3
Memory Storage Capacity (Max)	4 GB
Memory Clock Speed	1333 MHz
Graphics Card Interface	Integrated, PCI
S/PDIF Connector Type	Optical
Platform Support	Windows Vista
Item Model Number	945GCT-M/1333(V3.0)
ASIN	B000YYMOJ2
Date First Available	Sept. 25 2008

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.

When contacting support, please have your motherboard model number (945GCT-M/1333(V3.0)) and serial number readily available.