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Yanmis Yanmis6hprdy4uft

Yanmis H61A ATX Motherboard User Manual

Brand: Yanmis | **Model:** H61A (Yanmis6hprdy4uft)

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Yanmis H61A ATX Motherboard. Designed for LGA 1155 pin CPU architecture, this motherboard supports Intel Core i7/i5/i3 processors and features dual-channel DDR3 memory slots. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.



Figure 1.1: Yanmis H61A ATX Motherboard Overview

2. Key Features

- **LGA 1155 Pin CPU Architecture:** Supports Intel Core i7/i5/i3 LGA1155 series processors.
- **High Definition Video Output:** Equipped with VGA and HD Multimedia Interface (HDMI) video output ports for a clear visual experience.
- **Dual-Channel DDR3 Memory:** Features two DDR3 memory slots, supporting up to 16GB total memory capacity.
- **Multi-Phase Power Supply:** Ensures stable and accurate power delivery to the CPU, enhancing performance and system stability.

- **Durable PCB Material:** Constructed with high-quality PCB material and solid-state capacitors for long-term stability and resistance to deformation.



Figure 2.1: Motherboard features including CPU support and video interfaces.



Figure 2.2: Solid capacitors for enhanced durability and stability.

3. Specifications

Feature	Specification
Model	H61A
Motherboard Architecture	ATX
Base Plate Size	Approx. 215 x 170 mm (8.3 x 6.7 inches)
CPU Socket Type	LGA 1155 (Compatible with Intel Core i7/i5/i3)
Network Card	10/100 Mbit Network Card
Graphics Card Slot	PCIE 16Xx1
Supported Memory Type	DDR3x2 (Dual Channel)

Feature	Specification
Maximum Memory Capacity	16 GB
SATA Interface	SATA2.0x3
USB Ports	USB2.0x4 (rear), Front USB2.0 pinx1
Sound Card	HD AUDIO sound card, supports 6 channels
Power Supply Interface	24pinx1, 4pinx1
Expansion Interface	VGA, HD Multimedia Interface, PCIE 1Xx1 expansion slot
Battery Type	CR2032 cell battery (built-in)
Battery Capacity	240 mAh

4. Setup and Installation

Proper installation is crucial for the functionality and longevity of your motherboard. Follow these general steps for setting up your Yanmis H61A ATX Motherboard. Always refer to your PC case and component manuals for specific instructions.

4.1. Component Identification

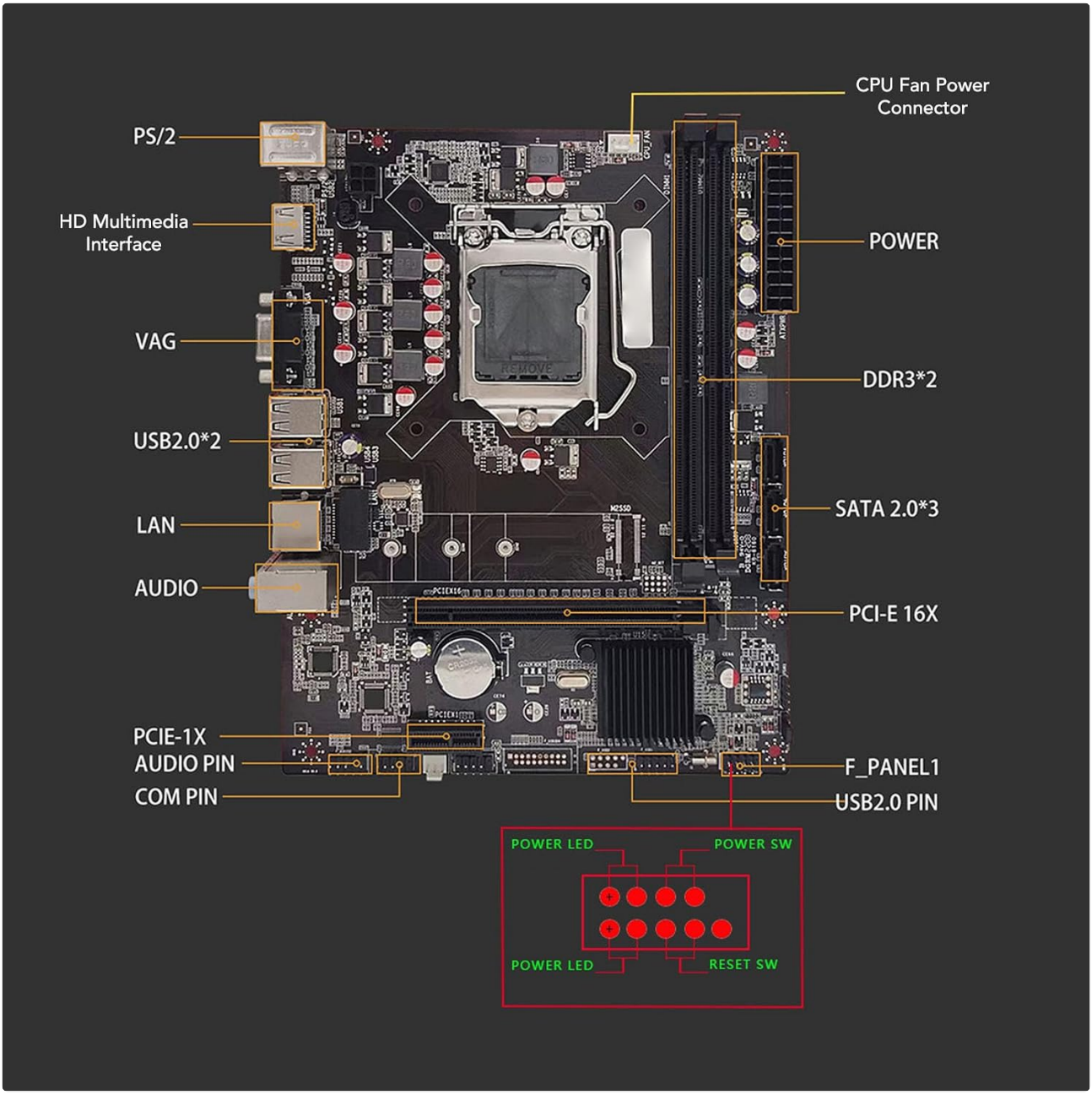

Figure 4.1: Motherboard layout with labeled connectors.

Familiarize yourself with the various ports and connectors on the motherboard as shown in Figure 4.1. Key areas include the CPU socket, DDR3 memory slots, PCIe slots, SATA ports, and I/O panel connectors.

4.2. Pre-Installation Checklist

- Ensure you have a compatible LGA 1155 CPU (Intel Core i7/i5/i3 series).
- Acquire DDR3 RAM modules (up to 16GB total).
- Prepare a compatible ATX PC case.
- Gather necessary tools: Phillips head screwdriver, thermal paste, anti-static wrist strap.

4.3. Installation Steps

1. **Prepare the Case:** Install the I/O shield into the rear opening of your PC case. Install standoffs in the case for the ATX motherboard form factor.
2. **Install CPU:** Open the CPU socket lever. Carefully align the CPU with the socket (match the golden triangle on the CPU to the triangle on the socket) and gently place it in. Close the lever to secure the CPU. **Do not force the CPU into the socket.**

3. **Apply Thermal Paste & Install Cooler:** Apply a small amount of thermal paste to the center of the CPU. Install the CPU cooler according to its manufacturer's instructions, ensuring it makes firm contact with the CPU. Connect the CPU fan cable to the 'CPU FAN' header on the motherboard.
4. **Install RAM:** Open the clips on the DDR3 memory slots. Align the notch on the RAM module with the key in the slot. Press down firmly on both ends of the RAM module until the clips snap into place.
5. **Mount Motherboard:** Carefully place the motherboard into the PC case, aligning the screw holes with the standoffs. Secure the motherboard with screws.
6. **Connect Power:** Connect the 24-pin ATX power connector and the 4-pin CPU power connector from your power supply to the motherboard.
7. **Connect Storage Devices:** Connect your SATA storage drives (HDDs/SSDs) to the SATA2.0 ports on the motherboard using SATA data cables. Connect power from the power supply to these drives.
8. **Connect Front Panel Cables:** Connect the front panel cables (Power SW, Reset SW, HDD LED, Power LED, USB 2.0, Audio) from your PC case to the corresponding headers on the motherboard. Refer to Figure 4.1 and your case manual for correct pin assignments.
9. **Install Expansion Cards:** If using a dedicated graphics card, install it into the PCIE 16X slot and secure it. Connect any necessary PCIe power cables from the power supply to the graphics card.
10. **Final Checks:** Double-check all connections before powering on the system.

5. Operating Instructions

Once all components are correctly installed and connected, you can proceed with operating your system.

5.1. Initial Power On

1. Connect your monitor, keyboard, and mouse to the appropriate ports on the motherboard's I/O panel.
2. Connect the power cable to your power supply and turn on the power supply switch.
3. Press the power button on your PC case. The system should power on, and you should see output on your monitor.
4. Access the BIOS/UEFI setup by pressing the designated key (usually DEL, F2, or F10) during startup. Configure boot order, date/time, and other settings as needed.
5. Install your operating system from a bootable USB drive or DVD.

5.2. BIOS/UEFI Settings

The BIOS (Basic Input/Output System) or UEFI (Unified Extensible Firmware Interface) is firmware that initializes hardware during the booting process and provides runtime services for the operating system. You can access it to:

- Set system date and time.
- Configure boot device priority.
- Monitor system temperatures and fan speeds.
- Adjust CPU and memory settings (for advanced users).

Refer to the on-screen instructions within the BIOS/UEFI for navigation and saving changes.

6. Maintenance

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

- **Dust Removal:** Periodically clean dust from inside your PC case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed to promote better airflow and prevent obstruction of components.
- **BIOS/UEFI Updates:** Check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow update instructions carefully to avoid system damage.
- **Component Checks:** Occasionally inspect for loose connections, bulging capacitors, or other visible signs of wear or damage.

7. Troubleshooting

If you encounter issues with your motherboard, consider the following troubleshooting steps:

- **No Power:**
  - Check if the power supply is switched on and properly connected to the wall outlet.
  - Ensure the 24-pin and 4-pin power connectors are securely seated on the motherboard.
  - Verify the front panel power button cable is correctly connected to the motherboard header.
- **No Display:**
  - Ensure the monitor is connected to the correct video output port (VGA or HDMI) on the motherboard or dedicated graphics card.
  - Reseat the RAM modules. Try booting with only one RAM module if you have multiple.
  - Reseat the graphics card (if applicable).
  - Clear the CMOS (refer to your motherboard manual for jumper location or remove the CR2032 battery for a few minutes).
- **System Instability/Crashes:**
  - Check CPU and GPU temperatures. Overheating can cause instability.
  - Run memory diagnostic tools to check for faulty RAM.
  - Ensure all drivers (chipset, graphics, etc.) are up to date.
  - Verify power supply wattage is sufficient for all components.
- **Peripheral Issues:**
  - If a USB device is not recognized, try a different USB port.
  - Ensure correct drivers are installed for all peripherals.
  - Check BIOS settings for USB or other peripheral configurations.

If these steps do not resolve the issue, consult a qualified technician or contact customer support.

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Yanmis website. Keep your proof of purchase for warranty claims.

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