GIGABYTE GA-H61M-S2PV

GIGABYTE GA-H61M-S2PV Motherboard User Manual

Model: GA-H61M-S2PV

1. Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your GIGABYTE GA-H61M-S2PV motherboard. Designed for Intel LGA1155 2nd Generation Intel Core Processors, this Micro ATX motherboard features GIGABYTE's Ultra Durable 4 Classic design, ensuring stability and longevity. It supports DDR3 memory, PCI-Express 2.0, and offers DVI output for integrated graphics.

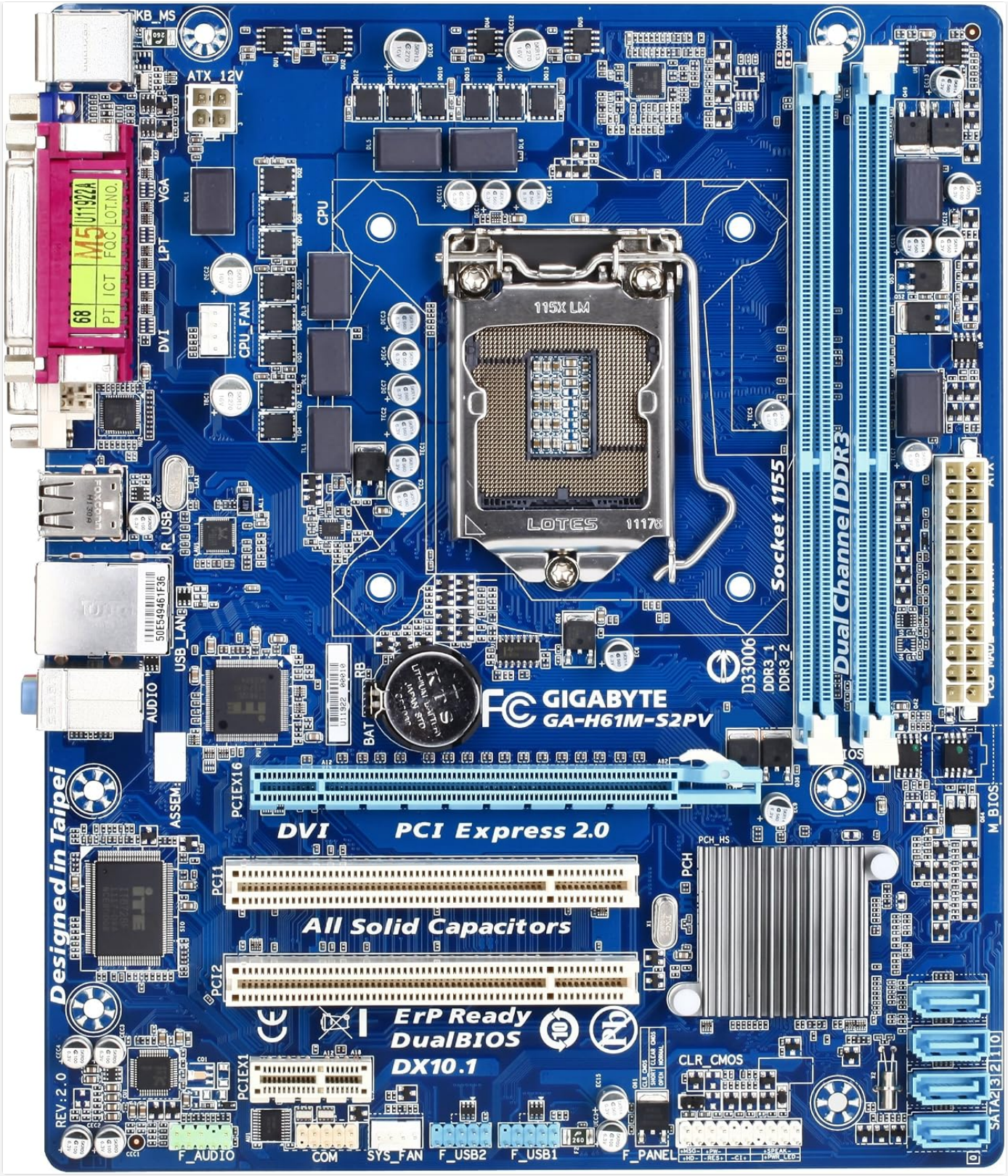


Figure 1: GIGABYTE GA-H61M-S2PV Motherboard Overview

2. Setup and Installation

2.1. Safety Precautions

- Always disconnect the power cord from the wall outlet before touching any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity.
- Handle the motherboard by its edges to avoid damaging components.

2.2. Component Installation

1. **CPU Installation:** Carefully open the LGA 1155 CPU socket lever. Align the triangular mark on the CPU with the mark on the socket, then gently place the CPU into the socket. Close the lever to secure the CPU.
2. **Memory (RAM) Installation:** Locate the two DDR3 DIMM slots. Open the clips at both ends of the slot. Align the notch on the memory module with the key in the slot. Press down firmly on both ends of the module until the clips snap into place. This motherboard supports up to 16GB of DDR3 1333/1066/800 MHz non-ECC memory.

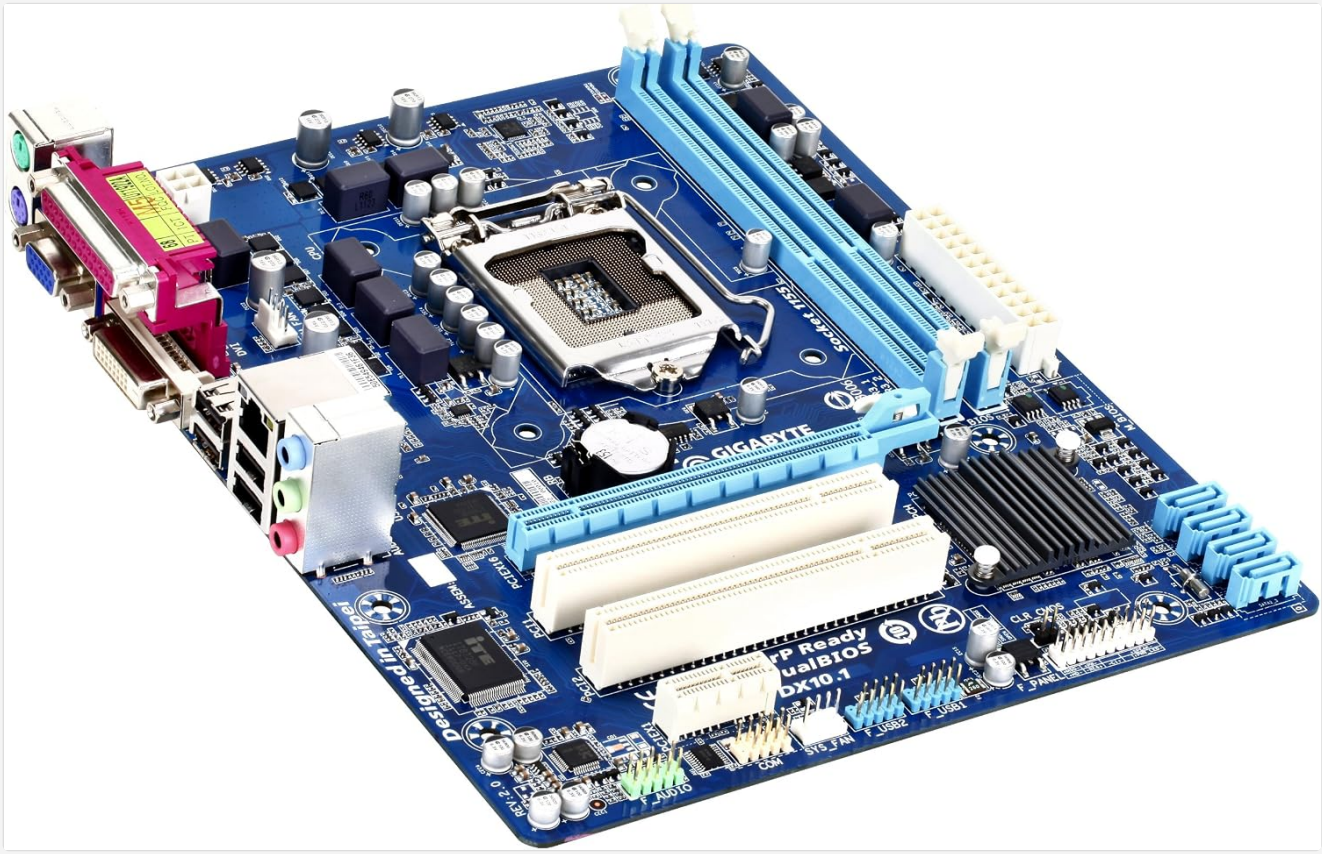


Figure 2: CPU Socket and Memory Slots

3. **Motherboard Installation:** Install the I/O shield into your PC case. Align the motherboard with the standoffs in the case and secure it with screws.
4. **Power Connections:** Connect the 24-pin ATX main power connector and the 4-pin ATX 12V power connector from your power supply to the corresponding ports on the motherboard.
5. **Storage Device Connections:** Connect your SATA 3Gb/s storage devices (HDDs, SSDs) to the four SATA 3Gb/s connectors on the motherboard using SATA data cables.
6. **Front Panel Connections:** Connect the front panel audio, USB 2.0/1.1, power switch, reset switch, and LED headers from your PC case to the corresponding pins on the motherboard. Refer to the motherboard diagram for exact pin locations.
7. **Back Panel Connections:** Connect your keyboard, mouse, monitor (via D-Sub or DVI-D), USB devices, LAN cable, and audio devices to the back panel I/O ports.



Figure 3: Back Panel I/O Ports

3. Operating Instructions

3.1. First Boot and BIOS Setup

Upon the first boot, press the **DEL** key repeatedly during the POST (Power-On Self-Test) to enter the BIOS/UEFI setup utility. Here you can configure system settings such as boot order, date/time, and various hardware parameters. Save changes before exiting.

3.2. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components (chipset, audio, LAN, graphics if using integrated) from the GIGABYTE support website or the provided driver CD (if applicable). This ensures optimal performance and stability.

4. Maintenance

4.1. BIOS Updates

Periodically check the GIGABYTE website for updated BIOS versions. BIOS updates can improve compatibility, stability, and add support for new hardware. Follow the instructions provided by GIGABYTE carefully when performing a BIOS update to avoid system damage.

4.2. Cleaning

Regularly clean dust from inside your PC case and off the motherboard components using compressed air. Ensure the system is powered off and unplugged before cleaning.

5. Troubleshooting

5.1. Common Issues and Solutions

- **No Power/No POST:** Ensure all power cables are securely connected. Check if the CPU and RAM are correctly seated. Try clearing the CMOS (refer to motherboard manual for jumper location).
- **No Display:** Verify monitor connection and power. If using integrated graphics, ensure the CPU supports it. If using a discrete graphics card, ensure it is properly seated and powered.
- **Operating System Not Booting:** Check boot order in BIOS. Verify hard drive connections. Consider reinstalling the operating system if data corruption is suspected.

For more complex issues, consult the detailed troubleshooting section in the full GIGABYTE user manual or contact GIGABYTE technical support.

6. Specifications

Feature	Specification
CPU Socket	LGA 1155
Supported CPUs	Intel Core i7/i5/i3/Pentium/Celeron series Processors
Chipset	Intel H61 Express Chipset
Memory Slots	2 x 240-pin DDR3 DIMM sockets
Max Memory Capacity	Up to 16GB
Memory Type	DDR3 1333/1066/800 MHz, non-ECC
Expansion Slots	1 x PCI-Express 2.0 x16, 1 x PCI-Express 2.0 x1, 2 x PCI slots
Storage Interface	4 x SATA 3Gb/s connectors
Audio	Realtek ALC887 audio codec (2/4/5.1/7.1-channel)
LAN	1 x Atheros 8151 LAN chip (10/100/1000 Mbit)
USB Ports	Up to 8 USB 2.0/1.1 ports (4 back panel, 4 via internal headers)
Video Output	1 x D-Sub port, 1 x DVI-D port
Form Factor	Micro ATX

7. Warranty and Support

GIGABYTE motherboards typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official GIGABYTE website for detailed warranty terms and conditions specific to your region. For technical assistance, driver downloads, and further support, please visit the GIGABYTE support page at www.gigabyte.com/support.

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