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LDGSUPH H81

LDGSUPH SOYO H81 Motherboard User Manual

Model: H81

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your LDGSUPH SOYO H81 Motherboard. Please read this manual thoroughly before proceeding with installation to ensure correct setup and optimal performance. This motherboard is designed for desktop applications, supporting LGA 1150 CPUs and DDR3 memory.

2. Safety Information

Observe the following safety precautions during installation and operation:

- Always disconnect the power supply from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components.
- Handle components by their edges to avoid touching pins or circuitry.
- Ensure proper ventilation within the computer case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

3. Package Contents

Verify that all items are present in your package. If any item is damaged or missing, contact your retailer.

- LDGSUPH SOYO H81 Motherboard
- I/O Shield
- SATA Data Cable(s)



Image: LDGSUPH SOYO H81 Motherboard with its included I/O shield and a SATA data cable, illustrating typical package contents.

4. Key Features

- **CPU Socket:** LGA 1150, supporting Intel Core i3, i5, i7 processors.
- **Memory:** 2 x DDR3 DIMM slots, supporting up to 32GB RAM in dual channel mode.
- **Storage:** 4 x SATA ports (SATA 2, SATA 3 compatible), 1 x M.2 slot (supports NVMe and SATA 2280 SSDs).
- **Expansion Slots:** 1 x PCIe x16 slot (PCI-E 3.0), 1 x PCIe x1 slot.
- **Video Output:** VGA (D-Sub), HDMI-Compatible.
- **Networking:** 1 x RJ45 LAN port (1000Mbps Max LAN Speed).
- **USB Ports:** USB 2.0 and USB 3.0 support.
- **Audio:** 5.1 Channel Audio.
- **Cooling:** High-quality capacitors and heat dissipation modules for efficient cooling.

- **Compatibility:** Tested for compatibility with most hardware components.


CPU_FAN1
CSYSFAN1
HDMI1
ATX12V1
CPU1
LGA1150
ATXPWR1
VGA_DVI1
USB2
RJ45_1
SOYO
SY-狂龙 H81M-V3H M2
SATA1
SATA3
PCIE_16X1
AUDIO1
BAT2
F_AUDIO1
PCIE1
USB30_1
F_USB2
F_PANEL1
REMOVE

Image: A top-down view of the LDGSUPH SOYO H81 Motherboard, highlighting the CPU socket, RAM slots, PCIe slots, and various connectors.

5. Setup and Installation

5.1 CPU Installation

1. Locate the LGA 1150 CPU socket on the motherboard.
2. Gently push down the load lever and pull it sideways to open the CPU socket cover.
3. Align the CPU with the socket, matching the golden triangle on the CPU with the triangle on the socket. Carefully place the CPU into the socket without forcing it.
4. Close the socket cover and push the load lever back into place until it clicks.
5. Install the CPU cooler according to its manufacturer's instructions.

5.2 Memory (RAM) Installation

1. Open the clips at both ends of the DDR3 DIMM slots.
2. Align the notch on the memory module with the notch in the DIMM slot.
3. Insert the memory module firmly into the slot until the clips snap into place. Ensure both clips are closed.

5.3 Storage Device Installation

5.3.1 SATA Drives

1. Connect one end of the SATA data cable to a SATA port on the motherboard.
2. Connect the other end of the SATA data cable to your SATA hard drive or SSD.
3. Connect a SATA power cable from your power supply unit (PSU) to the drive.

5.3.2 M.2 SSD

1. Locate the M.2 slot on the motherboard.
2. Remove the M.2 standoff screw.
3. Insert the M.2 SSD into the slot at a 30-degree angle.
4. Gently push down the M.2 SSD and secure it with the standoff screw.

5.4 Expansion Card Installation

1. Remove the metal slot cover from your computer case corresponding to the desired PCIe slot (PCIe x16 for graphics cards, PCIe x1 for other expansion cards).
2. Align the expansion card with the slot and press it firmly until it is fully seated.
3. Secure the card with a screw to the computer case.

5.5 Power Connections

1. Connect the 24-pin ATX power connector from your PSU to the 24-pin main power connector on the motherboard.
2. Connect the 4-pin or 8-pin +12V CPU power connector from your PSU to the corresponding CPU power connector on the motherboard.

5.6 Front Panel and I/O Connections

1. Connect the front panel headers (Power LED, HDD LED, Power Switch, Reset Switch) to the corresponding pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.
2. Connect front panel USB 2.0 and USB 3.0 cables to the respective headers.
3. Connect the front panel audio cable to the audio header.

4. Connect peripherals (monitor, keyboard, mouse, network cable) to the rear I/O panel ports.



Image: A detailed view of the rear I/O panel of the LDGSUPH SOYO H81 Motherboard, showing PS/2 ports, USB ports, VGA, HDMI, RJ45 Ethernet, and audio jacks.

6. Operating Instructions

6.1 Initial Boot

1. After completing all hardware installations, connect the power cord to the PSU and turn on the power switch.
2. Press the power button on your computer case.
3. The system should power on and display the BIOS/UEFI splash screen.

6.2 BIOS/UEFI Access

To enter the BIOS/UEFI setup utility, press the**Delete** key repeatedly during the initial boot process when the manufacturer logo appears. Within the BIOS/UEFI, you can configure system settings, boot order, and monitor hardware status.

6.3 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard chipset, audio, LAN, and any other integrated components. These drivers are typically provided on a support CD or can be downloaded from the manufacturer's website.

7. Maintenance

7.1 Cleaning

Regularly clean the interior of your computer case to prevent dust buildup, which can lead to overheating. Use compressed air to remove dust from fans, heatsinks, and motherboard components. Ensure the system is powered off and unplugged before cleaning.

7.2 BIOS Updates

Periodically check the manufacturer's website for BIOS/UEFI updates. Updates can improve system stability, add support for new hardware, or fix bugs. Follow the provided instructions carefully when performing a BIOS update to avoid system damage.

8. Troubleshooting

8.1 No Power

- Check if the PSU is properly connected to the wall outlet and turned on.
- Ensure the 24-pin ATX and 4/8-pin CPU power connectors are securely seated on the motherboard.

- Verify that the front panel power switch cable is correctly connected to the motherboard header.

8.2 No Display

- Ensure the monitor is connected to the correct video output port (VGA or HDMI) on the motherboard or discrete graphics card.
- Reseat the RAM modules. Incorrectly seated RAM is a common cause of no display.
- If using a discrete graphics card, ensure it is properly seated in the PCIe slot and has adequate power connected.
- Try booting with only one RAM stick installed.

8.3 System Instability / Crashes

- Check CPU and GPU temperatures to ensure they are within safe operating limits.
- Verify that all drivers are correctly installed and up to date.
- Run memory diagnostic tools to check for RAM errors.
- Ensure the PSU provides sufficient and stable power to all components.

9. Specifications

Feature	Specification
Chipset	H81
CPU Socket	LGA1150
Memory Slots	2 x DDR3
Max Memory Capacity	32 GB
Storage Interface	4 x SATA (SATA 2, SATA 3), 1 x M.2 (NVMe, SATA 2280)
PCIe x16 Slots	1 (PCI-E 3.0)
PCIe x1 Slots	1
Video Output	VGA (D-Sub), HDMI-Compatible
LAN	1 x RJ45 (1000Mbps)
Audio Channels	5.1
USB Support	USB 2.0, USB 3.0
Form Factor	Micro-ATX (implied by layout, common for H81)
Manufacturer	LDGSUPH
Item Weight	1.1 pounds

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. You may also visit the official LDGSUPH website for further assistance and updated driver downloads.

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Question

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