

Serounder Serounderyetn2p0o43

Serounder H81 Desktop Motherboard Set for I5 4570 User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Serounder H81 Desktop Motherboard Set. This set includes an H81 motherboard, an Intel i5-4570 processor, and 8GB DDR3 RAM. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.



Image 1: Serounder H81 Desktop Motherboard Set overview, highlighting its versatility for home, design, gaming, and other fields, and its 3 serial ATA 2.0 interfaces for multiple hard drives.

2. SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity, which can damage sensitive electronic components.
- Handle the motherboard by its edges to avoid touching components or traces.
- Keep the motherboard and all components away from moisture and extreme temperatures.
- Ensure proper ventilation within your computer case to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x H81 Computer Motherboard
- 1 x Intel i5-4570 CPU (pre-installed or separate)
- 2 x 4GB DDR3 Memory Modules (8GB total)
- 1 x CPU Cooler (with fan)
- 1 x I/O Baffle (Shield)
- 1 x Serial ATA Cable

- 1 x User Manual (this document)

Image 2: The complete package contents, showing the H81 motherboard with pre-installed CPU and cooler, an I/O shield, and a SATA data cable.

4. COMPONENT OVERVIEW

Familiarize yourself with the key components and connectors on your H81 motherboard.

4.1 Rear I/O Ports

- **USB 2.0 Ports:** For connecting peripherals like keyboards, mice, and printers.
- **USB 3.0 Ports:** For high-speed data transfer with compatible devices.
- **VGA Port:** For connecting to a display monitor.
- **High Definition Multimedia Interface (HDMI) Port:** For connecting to a display monitor or TV with digital video and audio.
- **RJ45 Network Port:** For wired internet connection.
- **Audio Jacks:** For connecting speakers, headphones, and microphones (Line-in, Line-out, Mic-in).

Image 3: Detail of USB 3.0 and HDMI ports on the rear I/O panel.

Image 4: Detail of network and audio ports on the rear I/O panel.

4.2 Internal Connectors and Slots

- **CPU Socket (LGA 1150):** For the Intel i5-4570 processor.
- **DDR3 DIMM Slots:** Two slots for DDR3 memory modules.
- **PCI-E X16 Graphics Card Slot:** For installing a dedicated graphics card.
- **PCI-E X1 Slot:** For expansion cards (e.g., Wi-Fi card).
- **M.2 High Speed SSD Interface:** Supports NGFF NVME SSDs.
- **Serial ATA 2.0 Ports:** Three ports for connecting SATA hard drives or SSDs.
- **USB 3.0 Header:** For front panel USB 3.0 ports.
- **USB 2.0 Header:** For front panel USB 2.0 ports.
- **24-pin ATX Power Connector:** Main power input from the power supply.
- **4-pin ATX 12V Power Connector:** CPU power input from the power supply.

5. SETUP GUIDE

Follow these steps to assemble and prepare your motherboard set for operation.

5.1 CPU Installation (if not pre-installed)

1. Locate the LGA 1150 CPU socket on the motherboard.
2. Gently push down the small metal lever on the side of the socket and pull it away from the socket to open the CPU

retention plate.

3. Carefully align the i5-4570 CPU with the socket, matching the gold triangle on the CPU with the triangle on the socket. Ensure the notches on the CPU align with the keys in the socket.
4. Lower the CPU straight down into the socket without applying force. It should sit flush.
5. Close the retention plate and push the lever back into its locked position.

5.2 CPU Cooler Installation

The CPU cooler is essential for dissipating heat from the processor.

1. Apply a thin, even layer of thermal paste to the center of the CPU (if not pre-applied to the cooler).
2. Align the CPU cooler's mounting pins or clips with the holes around the CPU socket on the motherboard.
3. Press down firmly on each pin/clip in a diagonal pattern until they click into place.
4. Connect the CPU fan cable to the 4-pin CPU_FAN header on the motherboard.



Image 5: Detail of the CPU cooler assembly.

5.3 RAM Installation

Your set includes two 4GB DDR3 memory modules.

1. Open the clips at both ends of the DDR3 DIMM slots.
2. Align the notch on the DDR3 memory module with the key in the DIMM slot.
3. Insert the module firmly into the slot until the clips snap into place, securing the module. Repeat for the second module.

5.4 Storage Device Installation

The motherboard supports both SATA 2.0 and M.2 NVMe/NGFF SSDs.

5.4.1 SATA Devices

1. Connect one end of the SATA data cable (included) to a SATA 2.0 port on the motherboard.
2. Connect the other end of the SATA data cable to your hard drive or SSD.
3. Connect a SATA power cable from your power supply to the hard drive or SSD.



Image 6: Motherboard view highlighting SATA 2.0 interfaces for storage expansion.

5.4.2 M.2 SSD

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

5.5 Graphics Card Installation (Optional)

If you are installing a dedicated graphics card:

1. Locate the PCI-E X16 slot.
2. Remove the corresponding expansion slot cover from your computer case.

3. Align the graphics card with the slot and press down firmly until it is fully seated. The retention clip at the end of the slot should snap into place.
4. Secure the graphics card to the case with a screw.
5. Connect any necessary PCIe power cables from your power supply to the graphics card.

5.6 Power Supply Connection

1. Connect the 24-pin ATX power cable from your power supply to the 24-pin connector on the motherboard.
2. Connect the 4-pin ATX 12V power cable from your power supply to the 4-pin connector near the CPU socket.

5.7 Peripheral Connections

Connect your keyboard, mouse, monitor, and other peripherals to the appropriate rear I/O ports as described in Section 4.1.

6. OPERATING INSTRUCTIONS

6.1 First Boot

1. After all components are installed and connected, connect your computer to a power outlet.
2. Press the power button on your computer case.
3. The system should power on, and you should see a display on your monitor.

6.2 BIOS/UEFI Configuration

To access the BIOS/UEFI setup utility, press the designated key (usually **DEL** or **F2**) repeatedly during the initial boot sequence. In the BIOS/UEFI, you can configure boot order, system time, and other advanced settings.

6.3 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard chipset, network, audio, and any other integrated components. These drivers are typically available on the manufacturer's website or an included driver disc (if applicable).

7. MAINTENANCE

7.1 Cleaning

- Regularly clean dust from inside your computer case, especially from the CPU cooler and case fans, using compressed air.
- Ensure the computer is powered off and unplugged before cleaning.

7.2 BIOS Updates

BIOS updates can provide improved compatibility, stability, and new features. Refer to the Serounder support website for the latest BIOS versions and update instructions. Exercise caution when updating the BIOS, as an interrupted update can render the motherboard inoperable.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:** Ensure all power cables (24-pin ATX, 4-pin ATX 12V, SATA power) are securely connected. Check the

power supply unit (PSU) switch and wall outlet.

- **No Display:** Verify that the monitor is connected to the correct video output (VGA or HDMI) and is powered on. Reseat the graphics card (if applicable) and RAM modules.
- **System Instability/Crashes:** Check RAM modules for proper seating. Ensure the CPU cooler is correctly installed and making good contact with the CPU. Monitor CPU and system temperatures.
- **Peripheral Not Detected:** Ensure USB devices are connected to functional ports. Check device drivers in the operating system.
- **Operating System Not Booting:** Check boot order in BIOS/UEFI. Verify that the storage drive containing the OS is properly connected and detected.

9. SPECIFICATIONS

Detailed technical specifications for the Serounder H81 Desktop Motherboard Set:

Component	Specification
Motherboard Chipset	Intel H81 Series
CPU Socket	LGA 1150
Supported CPU	Intel Core 4th Generation (e.g., i5-4570)
Memory Type	DDR3 1600/1333/1066 MHz
Memory Slots	2 x DDR3 DIMM slots
Included Memory	8GB (2 x 4GB)
Max Memory Capacity	16GB (8GB per slot)
Graphics Card Slot	1 x PCI-E X16
Expansion Slots	1 x PCI-E X1
Storage Interfaces	3 x Serial ATA 2.0, 1 x M.2 High Speed SSD (NGFF NVME support)
USB Ports (Rear)	2 x USB 3.0, 4 x USB 2.0
Video Outputs	1 x VGA, 1 x HDMI
Network	Integrated Adaptive Network Card (RJ45)
Audio	Integrated 6 Channel Sound Chip
Power Connectors	24-pin ATX, 4-pin ATX 12V
Power Supply Mode	3+1 Phase
Motherboard Size	Approx. 19x17cm / 7.5x6.7in
CPU Base Frequency	3.2 GHz

Component	Specification
CPU Max Turbo Frequency	3.6 GHz
CPU Core/Thread Count	Quad Core / Quad Thread
CPU L3 Cache	6MB
CPU Thermal Design Power (TDP)	84W
Integrated Graphics	Intel HD Graphics 4600
Cooling Fan Speed	2200 ± 10% RPM



Image 7: Motherboard dimensions for case compatibility.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Serounder website or contact your retailer. Keep your purchase receipt as proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

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