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Dpofirs Dpofirsu958gsnih0

Dpofirs HM65 Motherboard User Manual

Model: Dpofirsu958gsnih0

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Dpofirs HM65 Motherboard. Please read this manual thoroughly before proceeding with installation to ensure correct setup and optimal performance.

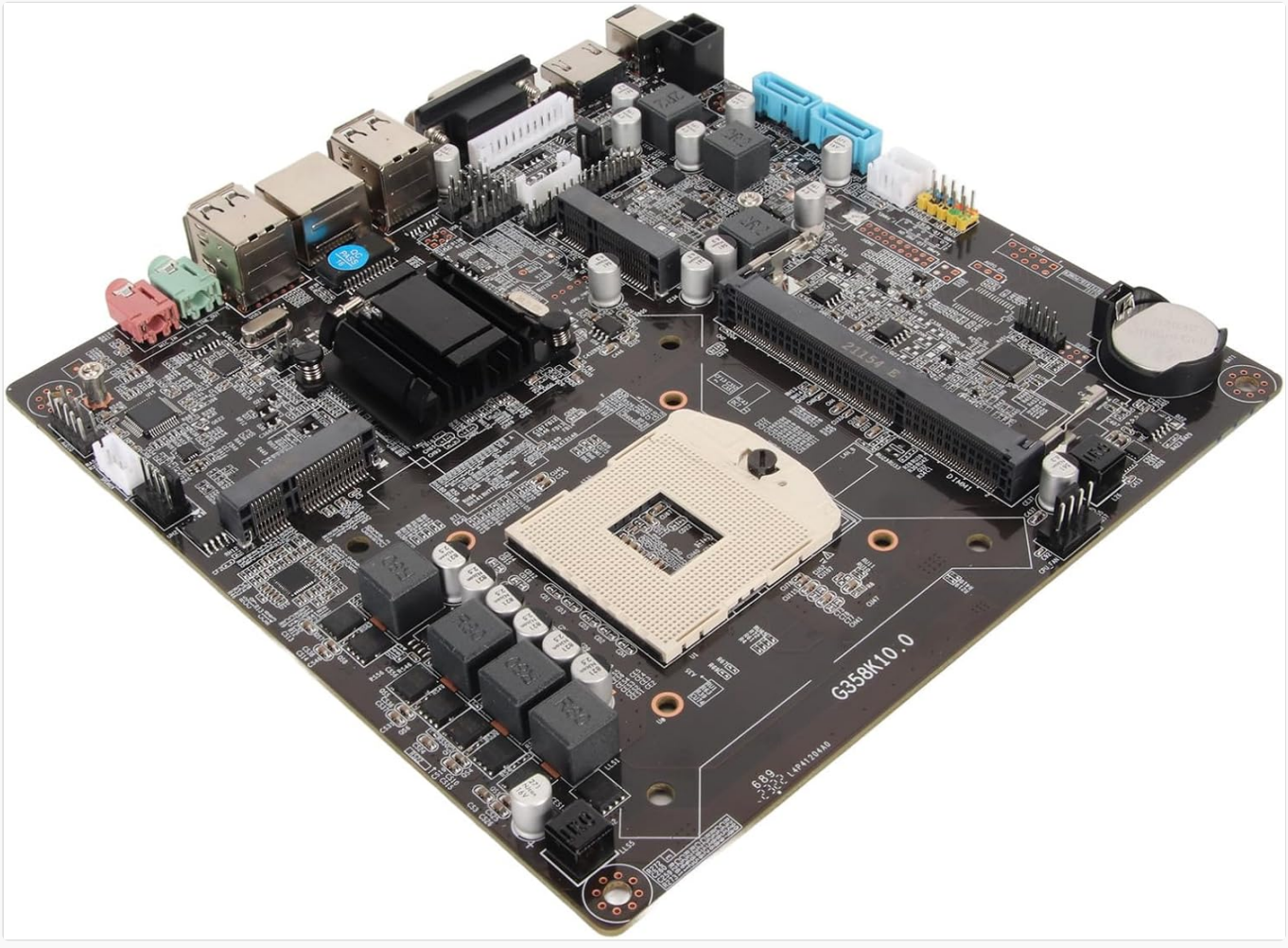


Image 1.1: Top-down view of the Dpofirs HM65 Motherboard, showcasing its various components and ports.

2. Safety Information

Always observe the following safety precautions when handling computer components:

- **Electrostatic Discharge (ESD) Prevention:** Wear an anti-static wrist strap or frequently touch a grounded metal object before handling the motherboard.
- **Power Disconnection:** Ensure the power supply is disconnected from the wall outlet before installing or removing any components.
- **Component Handling:** Handle the motherboard by its edges. Avoid touching integrated circuits or connectors directly.
- **Ventilation:** Ensure adequate ventilation within the computer case to prevent overheating.

3. Package Contents

Verify that all items are present in your package:

- Dpofirs HM65 Motherboard
- User Manual (this document)
- SATA Cable(s) (quantity may vary)
- I/O Shield

If any items are missing or damaged, please contact your retailer.

4. Setup and Installation

4.1. CPU Installation (LGA988)

1. Locate the LGA988 CPU socket on the motherboard.
2. Gently push down the load lever and pull it away from the socket to open the load plate.
3. Align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Carefully place the CPU into the socket without forcing it.
4. Close the load plate and secure it by pushing the load lever back into place.
5. Apply thermal paste to the CPU and install the CPU cooler according to its manufacturer's instructions.

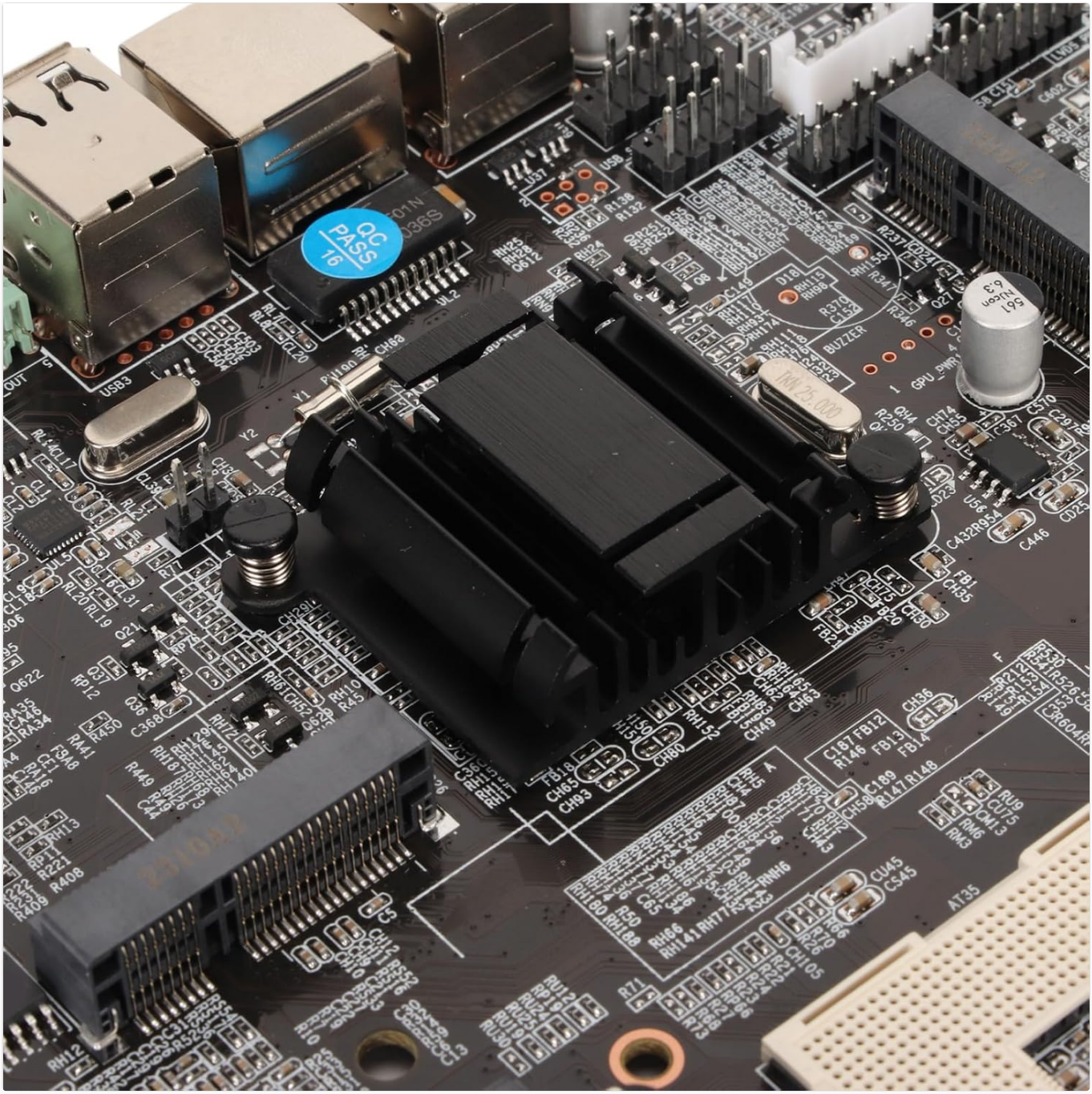


Image 4.1: A detailed view of the LGA988 CPU socket and the adjacent DDR3 S0 DIMM slot.

4.2. Memory (RAM) Installation

The motherboard features 1x 240pin DDR3 S0 DIMM slot, supporting up to 16GB of DDR3 1066/1333/1600MHz memory.

1. Open the clips at both ends of the DIMM slot.
2. Align the notch on the DDR3 S0 DIMM module with the key in the slot.
3. Insert the memory module firmly into the slot until the clips snap into place.

4.3. Storage Device Installation

The motherboard includes 2x Serial SATA connector ports and 1x M.SATA slot.

1. **SATA Drives:** Connect your SATA hard drives or SSDs to the SATA ports using SATA data cables. Ensure the power cable from your power supply is also connected to the drive.
2. **M.SATA Drive:** Insert your M.SATA SSD into the M.SATA slot and secure it with the provided screw.

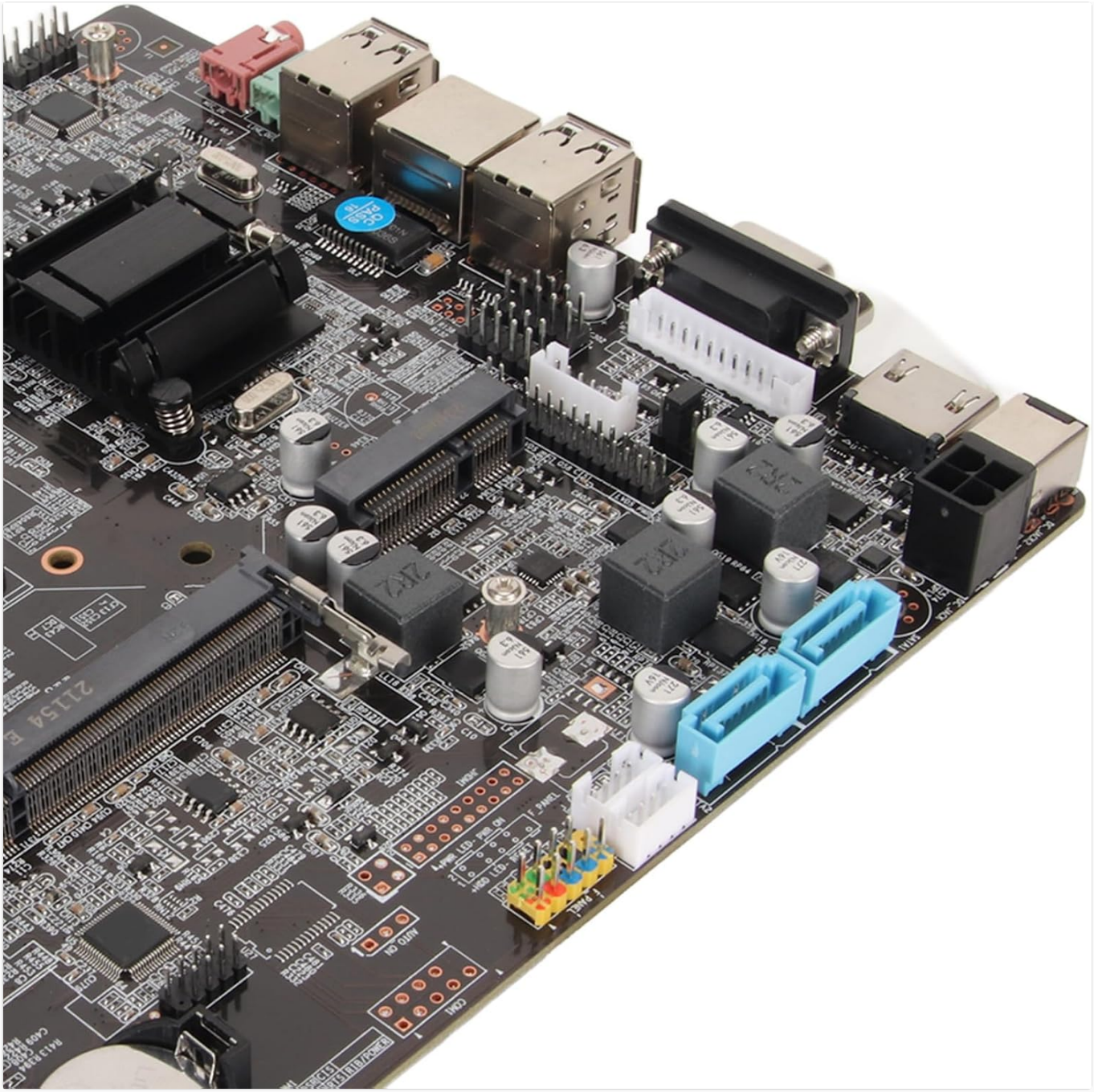


Image 4.2: View of the blue SATA ports and various front panel headers.

4.4. Power Connections

Connect the power supply unit (PSU) to the motherboard:

- **ATX 12V Power Connector:** Connect the 4-pin ATX 12V power cable from your PSU to the corresponding connector on the motherboard.
- **DCIN (12V) Port:** This port is for external 12V power input, typically used in compact systems.

4.5. Peripheral Connections

Connect external devices to the rear I/O panel:

- **USB Ports:** Connect USB devices to the 4x USB 2.0 ports.
- **Video Outputs:** Connect your display to the VGA port or the HD multimedia compatible port.
- **Network:** Connect an Ethernet cable to the RJ45 network port for wired internet access.
- **Audio:** Connect speakers/headphones and a microphone to the 2x audio ports (line out/microphone in).

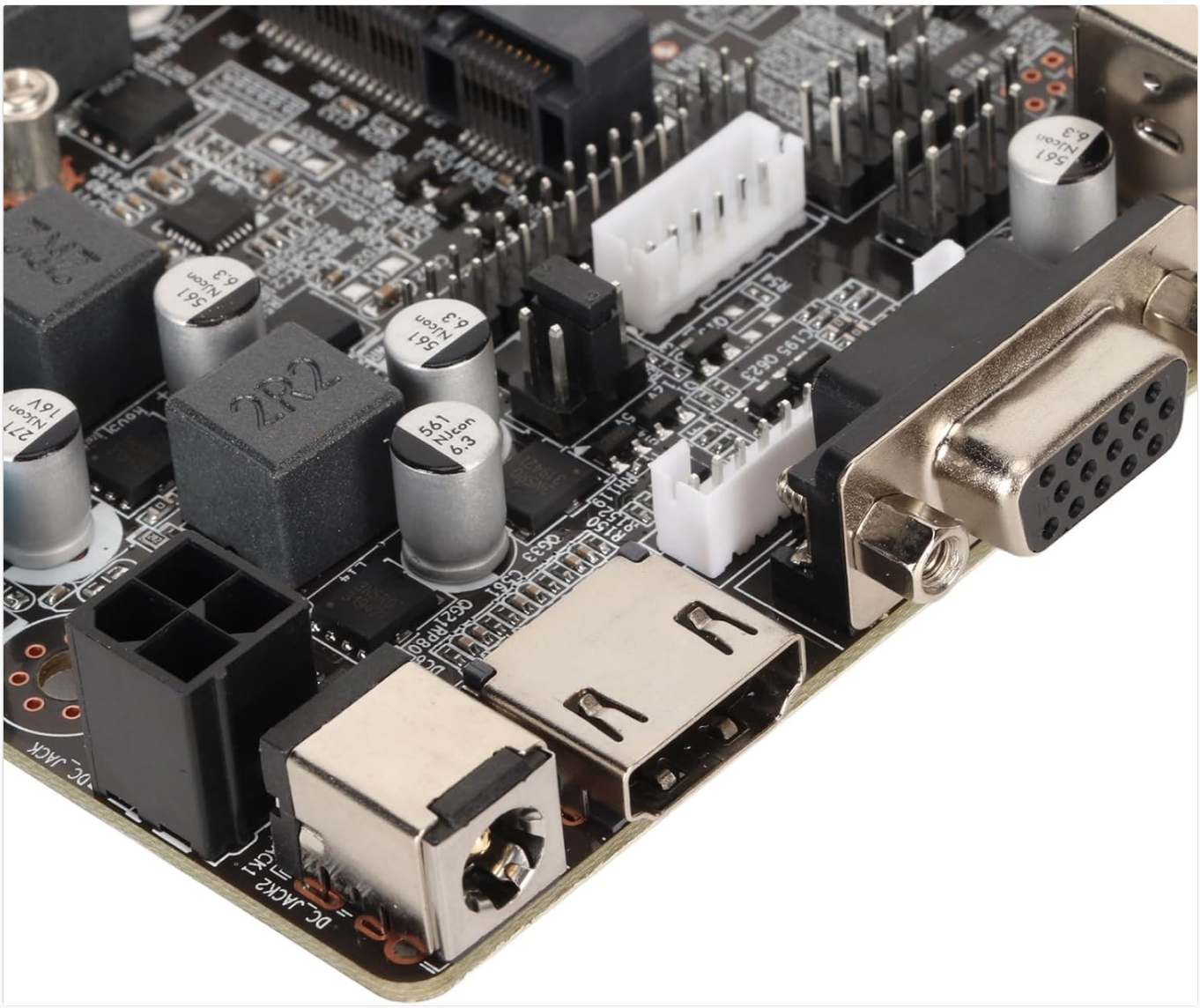


Image 4.3: Detailed view of the DCIN (12V) power input, USB ports, VGA, and HD multimedia compatible ports.

4.6. Internal Connectors

Connect front panel headers and other internal components:

- **F Audio Connector:** Connect your chassis' front panel audio cable.
- **F PANEL Connector:** Connect the power switch, reset switch, power LED, and HDD LED cables from your chassis.
- **F Speaker Connector:** Connect the internal speaker cable.
- **Fan Connectors:** Connect case fans to the available fan connectors.
- **JLVDS Connector, 30pin LVDS CON Connector, 12pin VGA CON Connector, 6pin Inverter Connector:** These are specialized connectors for integrated display solutions, typically found in industrial PCs or all-in-one systems.

5. Operating Instructions

5.1. Initial Boot-up

1. After completing all hardware installations, connect your monitor, keyboard, and mouse.
2. Connect the power supply to a wall outlet and turn on the system using the power button on your PC case.
3. The system should power on and display the BIOS/UEFI screen or boot into your operating system.

5.2. BIOS/UEFI Setup

To enter the BIOS/UEFI setup utility, press the designated key (usuallyDEL, F2, or F10) during the initial boot sequence. Here you can configure boot order, system time, and other hardware settings.

5.3. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred operating system. Ensure all necessary drivers are installed after OS installation for optimal performance.

6. Maintenance

Regular maintenance helps ensure the longevity and stable operation of your motherboard:

- **Dust Removal:** Periodically clean dust from the motherboard and other components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed to allow for proper airflow and prevent interference.
- **BIOS/Driver Updates:** Keep your BIOS/UEFI firmware and device drivers updated to the latest versions for improved compatibility and performance.

7. Troubleshooting

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

- **No Power:** Check all power connections, including the 4-pin ATX 12V connector and the main power cable from the PSU to the wall outlet. Ensure the power supply switch is on.
- **No Display:** Verify that your monitor is connected correctly to the motherboard's video output (VGA or HD multimedia compatible port) and that the monitor is powered on. Try reseating the memory module.
- **System Instability/Crashes:** This can be caused by overheating, faulty memory, or an unstable power supply. Check CPU cooler installation, memory seating, and ensure adequate case ventilation.
- **Peripheral Not Detected:** Ensure USB devices are properly connected. For SATA drives, check both data and power cables.
- **BIOS Reset:** If system settings become unstable, you can reset the BIOS to default settings. This is usually done via a jumper on the motherboard (refer to the motherboard diagram for location) or through the BIOS setup utility.

8. Specifications

Feature	Specification
Model	HM65
Material	PCB
CPU Socket	LGA988 (Supports Intel 2nd/3rd Gen SNB/IVB i3/i5/i7 PGA Series CPUs)
Chipset	Intel HM65 Express
Memory Slots	1x 240pin DDR3 S0 DIMM
Max. Memory Capacity	16GB DDR3 1066/1333/1600MHz

Feature	Specification
Storage Interfaces	2x Serial SATA, 1x M.SATA Slot
Expansion Slots	1x M PCI Express Slot
LAN	10/100/1000Mbps LAN
Audio	Onboard 6 Channel HD Audio Codec
Rear I/O Ports	1x DCIN (12V), 4x USB 2.0, 1x VGA, 1x HD multimedia compatible port, 1x RJ45, 2x Audio (Line Out/Mic In)
Internal Connectors	1x 4pin ATX 12V Power, 1x F Audio, 1x F PANEL, 1x F Speaker, 2x Fan, 1x JLVDS, 1x 30pin LVDS CON, 1x 12pin VGA CON, 1x 6pin Inverter
Form Factor	Micro ITX (Approx. 17 x 17cm / 6.69 x 6.69in)
Battery	CR2032 (Inbuilt)

9. Warranty and Support

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

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