KIMISS KIMISSvytfq4rgks

KIMISS Micro ATX Motherboard LGA 1155 User Manual

Model: KIMISSvytfq4rgks

1. Overview

This manual provides comprehensive instructions for the KIMISS Micro ATX Motherboard, designed for LGA 1155 socket processors. It supports Intel Core i3, i5, i7, Pentium, and Celeron CPUs, offering a robust platform for computing and gaming. This motherboard integrates essential features for a stable and high-performance desktop system.

Key Features:

- **Superior CPU Compatibility:** Supports 2nd generation LGA 1155 processors, including i7 2600k, i5 2500s, i5 2400s, i3 2130, Pentium G530/G630/G860, and similar CPUs.
- **High Capacity Memory:** Features DDR3 dual-channel non-ECC memory support, operating at 1066/1333/1600 MHz with a maximum capacity of 16GB.
- **Fast M.2 NVMe NGFF Interface:** Equipped with a high-speed M.2 hard drive interface, supporting both NVMe and NGFF dual modes for flexible storage options.
- **Stable Power and Output:** Utilizes a three-phase power design with solid-state capacitors and a 24+4 pin power socket for stable operation. Supports VGA and HD Multimedia Interface output, and includes a PCIe X16 graphics card slot.
- **Numerous Input and Output Interfaces:** Provides 6 USB 2.0 ports, 3 SATA2.0 ports, 1 M.2 hard drive interface, 10/100 Mbps LAN, VGA, HD Multimedia Interface, RJ45, and a 3-in-1 audio port.

Figure 1: KIMISS Micro ATX Motherboard highlighting its main features and specifications.

2. Product Layout

Familiarize yourself with the various components and connectors on your motherboard before installation. This diagram illustrates the key areas and interfaces.

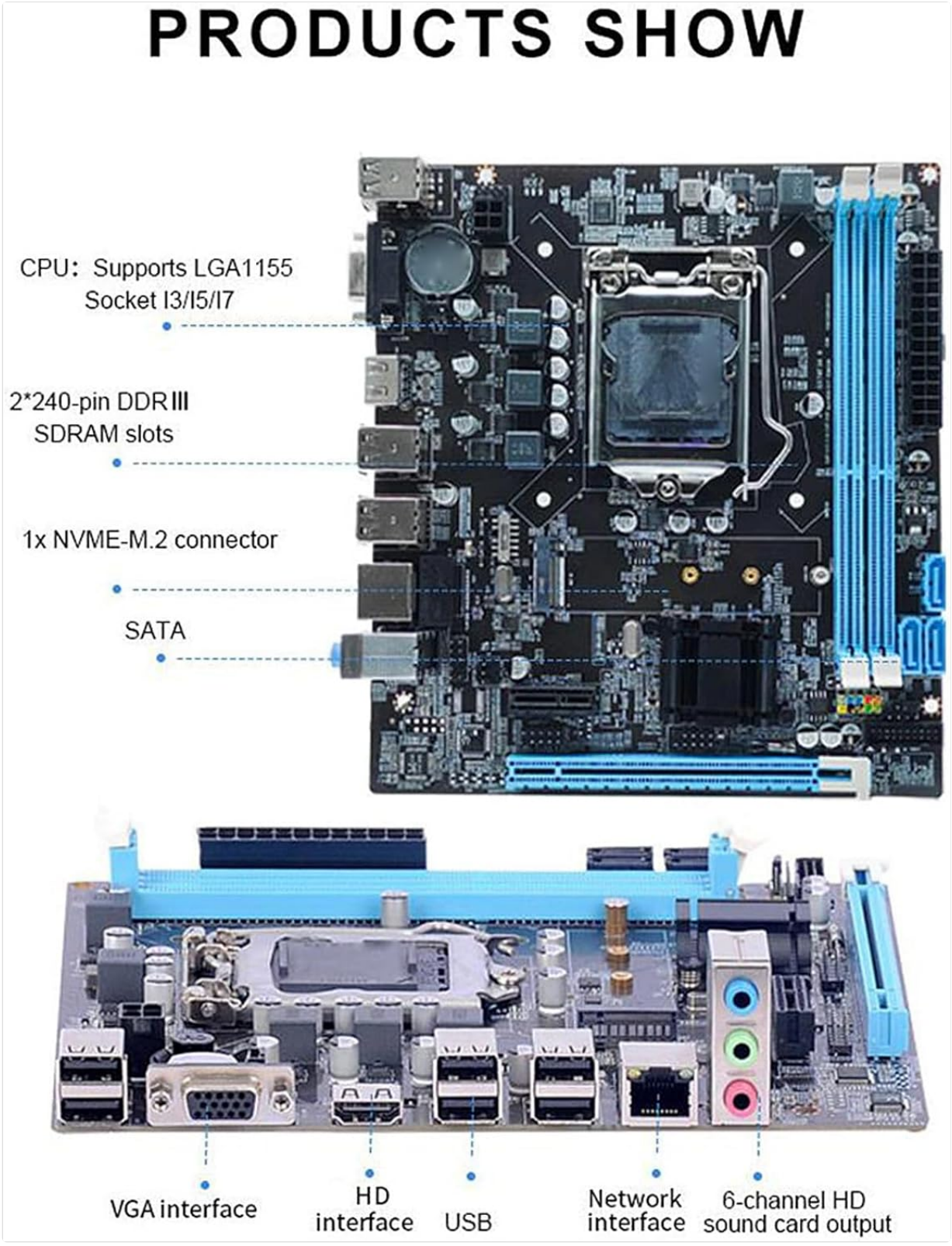

Figure 2: Detailed layout of the motherboard, indicating the CPU socket, DDR3 RAM slots, M.2 NVMe connector, SATA ports, and rear I/O panel.

The motherboard features a central LGA 1155 CPU socket, two DDR3 memory slots, an M.2 NVMe/NGFF slot, and multiple SATA ports for storage. The rear I/O panel includes VGA, HD Multimedia Interface, USB ports, and a LAN port.

3. Setup and Installation

Follow these steps carefully to install your motherboard and its components. Ensure your system is powered off and unplugged before beginning any installation.

3.1. CPU Installation

1. Locate the LGA 1155 CPU socket on the motherboard.
2. Gently lift the load lever and open the CPU socket cover.
3. Align the triangular mark on your Intel LGA 1155 CPU with the corresponding mark 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. Apply thermal paste and install the CPU cooler according to its manufacturer's instructions.

3.2. RAM (Memory) Installation

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

3.3. M.2 NVMe/NGFF Drive Installation

1. Locate the M.2 slot on the motherboard.
2. Remove the M.2 standoff screw from the motherboard.
3. Align the notch on your M.2 drive with the key in the M.2 slot and insert it at an angle.
4. Gently push the M.2 drive down and secure it with the standoff screw.

3.4. Power Connections

Connect the power supply unit (PSU) cables to the motherboard.

- **24-pin ATX Power Connector:** Connect the main 24-pin power cable from your PSU to the 24-pin ATX connector on the motherboard. Ensure it is fully seated.
- **4-pin 12V CPU Power Connector:** Connect the 4-pin 12V CPU power cable from your PSU to the corresponding connector near the CPU socket.

Figure 3: The 24-pin ATX power connector, essential for motherboard power.

3.5. Peripheral Connections

- **SATA Devices:** Connect your SATA hard drives or SSDs to the SATA2.0 ports using SATA data cables.
- **Front Panel Connectors:** Connect the power switch, reset switch, HDD LED, and power LED cables from your computer case to the front panel header on the motherboard. Refer to your case manual for specific pin assignments.
- **USB Ports:** Connect front panel USB 2.0 ports to the internal USB headers.
- **Audio:** Connect front panel audio cables to the appropriate audio header.
- **Expansion Cards:** Install any PCIe X16 graphics cards or PCIe X1 expansion cards into their respective slots.

4. Operating Instructions

Once all components are installed and connected, you can power on your system.

4.1. Initial Boot

1. Connect your monitor to either the VGA or HD Multimedia Interface port on the motherboard's rear I/O panel.
2. Connect a keyboard and mouse to the USB ports.
3. Plug in the power cable to your PSU and turn on the power switch on the PSU.
4. Press the power button on your computer case.
5. The system should power on and display the BIOS/UEFI splash screen.

4.2. BIOS/UEFI Access

To enter the BIOS/UEFI setup, press the designated key (usually**DEL** or **F2**) repeatedly during the initial boot sequence. From the BIOS/UEFI, you can configure boot order, system settings, and monitor hardware status.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your motherboard.

5.1. General Cleaning

- Regularly clean dust from inside your computer case using compressed air.
- Ensure all fans (CPU, case, PSU) are free from obstructions to maintain adequate airflow.
- Always power off and unplug your system before cleaning.

5.2. 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 manufacturer's instructions carefully when performing a BIOS update, as an incorrect procedure can damage the motherboard.

6. Troubleshooting

This section addresses common issues you might encounter.

6.1. No Power

- Ensure the PSU is plugged into a working power outlet and its switch is ON.
- Verify that the 24-pin ATX and 4-pin 12V CPU power connectors are securely attached to the motherboard.
- Check the front panel power switch connection to the motherboard.

6.2. No Display Output

- Confirm that the monitor is connected to the correct video output port (VGA or HD Multimedia Interface) on the motherboard or dedicated graphics card.
- Ensure the monitor is powered on and set to the correct input source.
- Reseat the RAM modules. Incorrectly seated RAM is a common cause of no display.
- If using a dedicated graphics card, ensure it is properly seated in the PCIe slot and has adequate power connected.

6.3. System Fails to Boot

- Check all power connections to the motherboard and components.
- Verify that the CPU and CPU cooler are correctly installed.
- Ensure RAM modules are properly seated.
- Disconnect all non-essential peripherals (e.g., extra hard drives, expansion cards) and try booting with only the CPU, one RAM stick, and the primary display.
- Clear the CMOS (Complementary Metal-Oxide-Semiconductor) by removing the CMOS battery for a few minutes or using the clear CMOS jumper (refer to motherboard diagram for location).

7. Specifications

Detailed technical specifications for the KIMISS Micro ATX Motherboard.

Feature	Specification
Brand	KIMISS
Model Name	KIMISSvytfq4rgks
CPU Socket	LGA 1155
Compatible Processors	Intel Core i3/i5/i7 (2nd Gen), Pentium, Celeron
Chipset Type	Intel Z68
RAM Technology	DDR3 (Non-ECC, Dual Channel)
Memory Speed	1066/1333/1600 MHz
Max Memory Capacity	16 GB
Storage Interfaces	3 x SATA2.0 ports, 1 x M.2 NVMe/NGFF slot (dual mode support)
USB Ports	6 x USB 2.0 (rear I/O), 2 x USB headers (support 4 x USB 2.0)
Video Output	1 x VGA port, 1 x HD Multimedia Interface port
LAN	10/100 Mbps Ethernet
Audio	Integrated ALC 6-channel HD codec, 3-in-1 audio port (Line In/Line Out/Mic In)
Expansion Slots	1 x PCI Express X16, 1 x PCI Express X1
Power Connectors	1 x 24-pin ATX, 1 x 4-pin 12V ATX
Form Factor	Micro ATX (17 x 19 cm / 6.7 x 7.5 inches)
Battery	CR2032 240 mAh (integrated)
Compatible Devices	Personal Computer, Desktop, Laptop

8. Warranty Information

The KIMISS Micro ATX Motherboard comes with a manufacturer's warranty. Please refer to the following details:

- **Manufacturer Warranty:** 2 years.
- **Return Policy:** Typically 30 days for refund/replacement, subject to retailer terms.

For specific warranty claims or detailed terms and conditions, please retain your proof of purchase and contact the retailer or manufacturer directly.

9. Customer Support

If you encounter any issues not covered in this manual or require further assistance, please contact your retailer or the manufacturer's customer support. Have your product model number (KIMISSvytfq4rgks) and purchase information ready when seeking support.