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Enter EN-E-H81

Enter E-H81 Micro ATX Motherboard User Manual

Model: EN-E-H81

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the Enter E-H81 Micro ATX Motherboard. Designed for 4th Generation Intel Core, Pentium, and Celeron processors, this motherboard offers a reliable foundation for your personal computer system. It features an Intel H81 Express Chipset, DDR3 RAM support, USB 3.0 ports, HDMI, and HD 6 Channel Audio for a comprehensive computing experience.

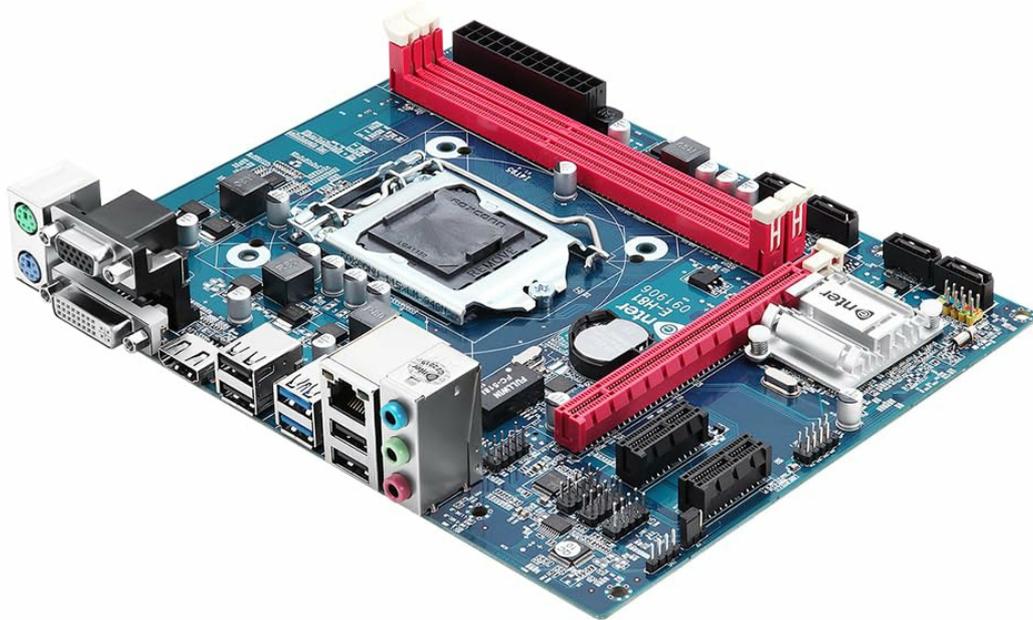


Figure 1: Front view of the Enter E-H81 Micro ATX Motherboard, showing the CPU socket, RAM slots, and various connectors.

2. PRODUCT FEATURES

- **Processor Support:** Compatible with 4th Generation Intel Core, Pentium, and Celeron processors (LGA 1150 socket).
- **Memory Support:** Two DDR3 RAM slots, supporting up to 16 GB total memory with clock speeds up to 1600 MHz.
- **Chipset:** Equipped with the Intel H81 Express Chipset for stable and efficient performance.
- **Storage:** Features 3 SATA ports for connecting storage devices.
- **Connectivity:** Includes 1 x VGA Port, 1 x HDMI Port, 2 x USB 3.0 Ports, 4 x USB 2.0 Ports, and 6 x Ethernet Ports.
- **Audio:** Integrated HD 6 Channel Audio for immersive sound experiences.
- **Expansion:** PCI Express graphics card interface.

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Video 1: An overview of the Enter E-H81 Micro ATX Motherboard, highlighting its key features and specifications.

3. SETUP AND INSTALLATION

3.1 Unpacking the Motherboard

Carefully remove the motherboard from its packaging. Ensure all accessories, including the I/O shield, SATA cables, and driver CD, are present. Handle the motherboard by its edges to avoid static discharge.



Figure 2: Contents of the Enter E-H81 Micro ATX Motherboard package, including the motherboard, I/O shield, SATA cable, and driver CD.

3.2 CPU Installation (LGA 1150)

1. Locate the LGA 1150 CPU socket on the motherboard.
2. Gently push down the load lever and pull it to the side to open the CPU socket cover.
3. Align the triangular mark on the 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 its locked position.
5. Install the CPU cooler according to its manufacturer's instructions.

3.3 RAM Installation (DDR3)

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

3.4 Storage Device Installation (SATA)

1. Connect one end of a SATA data cable to a SATA 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 unit (PSU) to the storage device.

3.5 Power Connections

1. Connect the 24-pin ATX main power connector from your PSU to the corresponding port on the motherboard.
2. Connect the 4-pin ATX 12V power connector (CPU power) from your PSU to the port near the CPU socket.

3.6 Front Panel and Peripheral Connections

Connect the front panel headers (power switch, reset switch, HDD LED, power LED, front USB, front audio) to their respective pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation. Connect external peripherals such as USB devices, display cables (VGA/HDMI), and audio devices to the rear I/O panel.

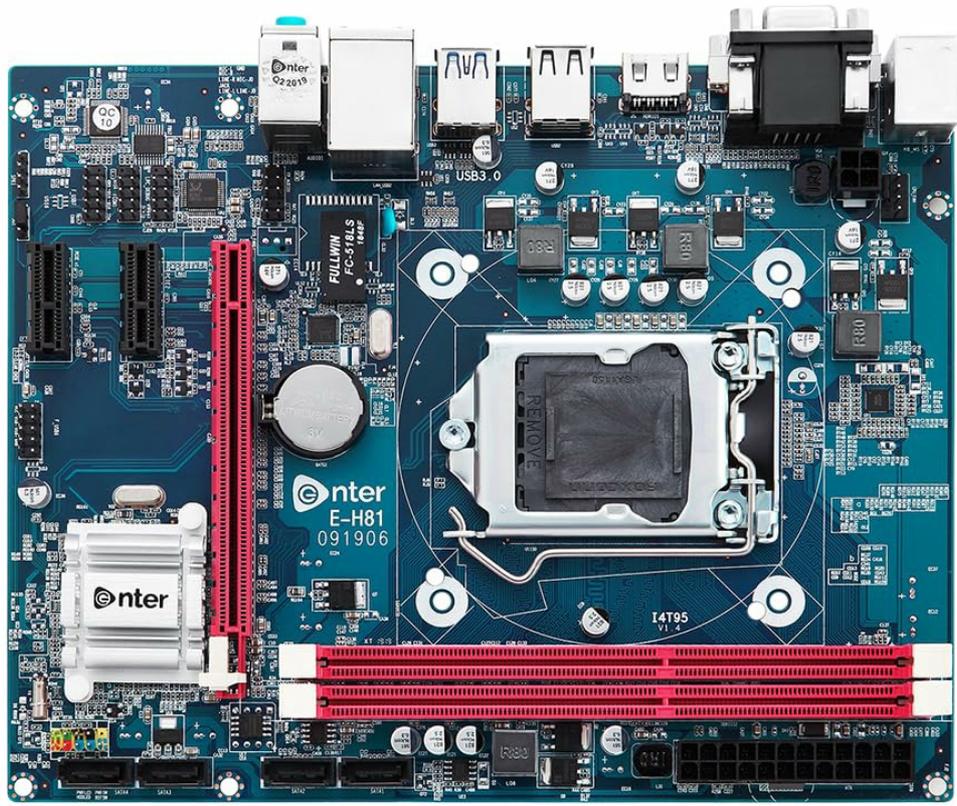


Figure 3: Detailed front view of the motherboard, highlighting CPU socket, RAM slots, and various headers for front panel connections.

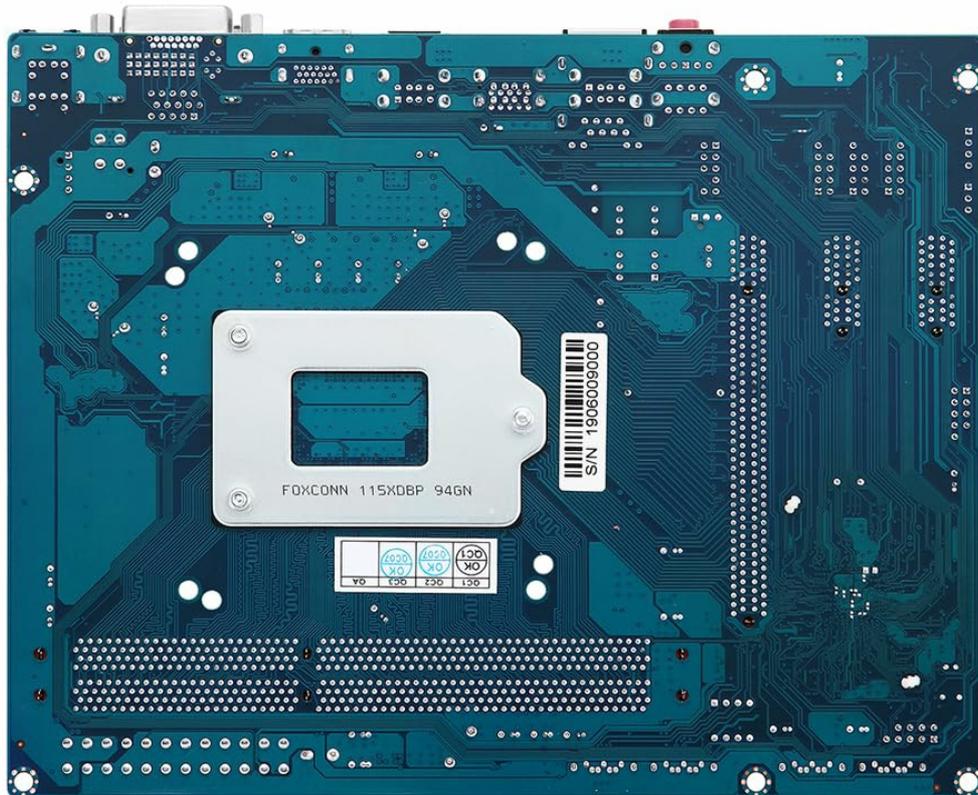


Figure 4: Rear view of the motherboard, showing the I/O panel with ports for USB, HDMI, VGA, Ethernet, and audio.

4. OPERATING INSTRUCTIONS

4.1 BIOS Setup

Upon initial power-on, press the designated key (usually **DEL** or **F2**) during the boot sequence to enter the BIOS setup utility. The Enter E-H81 motherboard features a user-friendly BIOS interface, allowing you to configure system settings, boot order, and hardware parameters. Save changes before exiting the BIOS.

4.2 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components. A driver CD is included in the package. Alternatively, you can download the latest drivers from the manufacturer's official website. Install drivers for chipset, audio, LAN, and any other integrated devices.

4.3 Operating System Installation

Insert your operating system installation media (USB drive or DVD) and set the boot order in BIOS to prioritize the installation media. Follow the on-screen prompts to install your preferred operating system.

5. MAINTENANCE

5.1 Cleaning

Regularly clean your computer's interior to prevent dust buildup, which can lead to overheating and component failure. Use compressed air to remove dust from the motherboard, CPU cooler, and other components. Ensure the system is powered off and unplugged before cleaning.

5.2 BIOS Updates

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

5.3 Driver Updates

Keep your drivers updated to ensure optimal performance and compatibility. Download the latest drivers from the manufacturer's website for your operating system.

6. TROUBLESHOOTING

If you encounter issues with your motherboard, consider the following troubleshooting steps:

- **No Power:** Ensure all power cables (24-pin ATX, 4-pin ATX 12V) are securely connected. Check your power supply unit (PSU) for proper function.
- **No Display:** Verify that your monitor is connected to the correct video output (VGA or HDMI) on the motherboard or discrete graphics card. Reseat RAM modules and the graphics card.
- **System Instability/Crashes:** Check RAM modules for proper installation. Ensure CPU cooler is correctly seated and thermal paste is applied. Run memory diagnostic tools.
- **Peripheral Not Detected:** Ensure USB devices are connected to functional ports. Check device manager for driver issues.
- **BIOS Reset:** If system settings are incorrect, you can reset the BIOS to default settings by clearing the CMOS. Refer to the motherboard diagram for the CLR_CMOS jumper or remove the CMOS battery for a few minutes.

For persistent issues, consult the manufacturer's support resources or a qualified technician.

7. SPECIFICATIONS

Feature	Specification
Brand	Enter
Model Number	EN-E-H81
Processor Socket	LGA 1150
Compatible Processors	4th Gen Intel Core / Pentium / Celeron
Chipset	Intel H81 Express

Feature	Specification
Memory Technology	DDR3
Memory Slots	2
Maximum Memory Supported	16 GB
Memory Clock Speed	1600 MHz
Graphics Card Interface	PCI Express
USB 3.0 Ports	2
USB 2.0 Ports	4
HDMI Ports	1
VGA Ports	1
SATA Ports	3
Ethernet Ports	6
Form Factor	Micro ATX
Product Dimensions	20 x 25 x 5 cm
Item Weight	350 g

8. WARRANTY AND SUPPORT

The Enter E-H81 Micro ATX Motherboard comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use conditions. For warranty claims, technical support, or further assistance, please contact your retailer or the manufacturer's customer service department. Keep your proof of purchase for warranty validation.