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> JUTOIPIC i5-3317u Mini-ITX Motherboard User Manual

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Model: i5-3317u

1. PRODUCT OVERVIEW

The JUTOIPIC i5-3317u Mini-ITX Motherboard is an embedded ultra-thin mainboard designed for industrial and compact computing applications. It features an integrated Intel i5-3317u CPU and offers extensive connectivity options, including multiple COM ports, LAN ports, and support for DDR3 memory.

Key Features:

- Integrated Intel i5-3317u CPU for efficient performance.
- Compact Mini-ITX form factor, ideal for space-constrained environments.
- Multiple serial communication ports (6*COM) for industrial applications.
- Dual Gigabit LAN ports for robust network connectivity.
- Support for DDR3 memory.
- Wide DC power input range (8~36V).
- Legacy port support including LPT and PS/2.

2. SAFETY INFORMATION

Please read the following safety guidelines carefully before installing or operating the motherboard. Failure to comply may result in damage to the product, personal injury, or voiding the warranty.

- Always disconnect the power supply before handling any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage.
- Ensure proper ventilation to prevent overheating.
- Do not expose the motherboard to moisture or extreme temperatures.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Use only compatible power supplies and peripherals.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package. If any item is missing or damaged, contact your vendor immediately.

- JUTOIPC i5-3317u Mini-ITX Motherboard
- I/O Shield
- SATA Data Cable(s)
- Driver CD/USB (if included)
- User Manual (this document)

4. COMPONENT IDENTIFICATION

This section provides a visual guide to the motherboard's layout and external ports.



Figure 4.1: Motherboard Dimensions. The board measures 170mm x 170mm with a thickness of 22mm.



Figure 4.2: Motherboard Component Layout and Rear I/O Panel.

Internal Connectors and Components:

- **ATX_12V:** 12V Power Connector for CPU.
- **PS/2:** PS/2 Keyboard/Mouse Connector.
- **COM1:** Serial Port 1.
- **JVGA1:** Internal VGA Header.
- **HDMI1:** HDMI Output Port.
- **LVDS1:** LVDS Display Connector.
- **JVGA2:** Internal VGA Header 2.
- **MINISATA:** Mini-SATA Slot.
- **AUDIO1:** Front Panel Audio Header.
- **MINIPCIE:** Mini-PCIe Slot.
- **PCI:** PCI Expansion Slot.
- **NB/DDR3:** Northbridge / DDR3 Memory Slots.
- **USB2, USB3:** USB Headers.
- **LPT1:** Parallel Port Header.
- **SATA:** SATA Storage Connectors.
- **COM2, COM3-6:** Additional Serial Ports.
- **GPIO1:** General Purpose Input/Output Header.
- **FP1:** Front Panel Header (Power, Reset, LEDs).

Rear I/O Panel Ports:

- **PS/2:** PS/2 Keyboard/Mouse Port.
- **DC 12V:** DC Power Input (8~36V).
- **VGA:** VGA Display Output.
- **USB2.0:** USB 2.0 Ports.
- **LAN:** Gigabit Ethernet Ports.
- **Line_out:** Audio Line Out Port.

5. SETUP GUIDE

Follow these steps to properly install and configure your motherboard.

5.1. CPU Installation (Integrated)

The Intel i5-3317u CPU is integrated onto this motherboard. No separate CPU installation is required.

5.2. Memory (RAM) Installation

1. Locate the DDR3 memory slots (NB/DDR3) on the motherboard.
2. Open the clips at both ends of the memory slot.
3. Align the notch on the DDR3 memory module with the notch in the slot.
4. Insert the module firmly into the slot until the clips snap into place.

5.3. Storage Device Installation

1. **SATA Drives:** Connect SATA data cables from your storage devices (HDD/SSD) to the SATA connectors on the motherboard. Connect power cables from your power supply to the drives.
2. **Mini-SATA Drives:** Insert the Mini-SATA module into the MINISATA slot and secure it with a screw.

5.4. Peripheral Connections

- Connect your display to the VGA or HDMI port on the rear I/O panel.
- Connect USB devices (keyboard, mouse, etc.) to the USB 2.0 ports.
- Connect Ethernet cables to the LAN ports for network access.
- Connect PS/2 keyboard/mouse to the PS/2 port if applicable.
- Connect audio devices to the Line_out port.
- Connect internal headers (Front Panel, USB, Audio, COM) as required by your chassis and peripherals.

5.5. Power Connection

1. Connect the 12V DC power adapter (not included) to the DC 12V input port on the rear I/O panel. Ensure the power adapter provides a stable DC voltage within the 8~36V range.
2. Connect the ATX_12V power connector from your power supply to the corresponding header on the motherboard.

6. OPERATING INSTRUCTIONS

This section outlines the basic steps for operating your motherboard.

6.1. Initial Power On

1. After all components are installed and connected, ensure the power supply is connected and switched on.
2. Press the power button on your chassis (connected to the FP1 header).
3. The system should power on, and you should see a display output.

6.2. BIOS Setup

To enter the BIOS setup utility, press the **DEL** or **F2** key repeatedly during the system's power-on self-test (POST) sequence. In the BIOS, you can configure system settings, boot order, and other advanced options.

6.3. Operating System Installation

Insert your operating system installation media (USB drive or optical disc) and configure the boot order in the BIOS to boot from the installation media. Follow the on-screen instructions to install your preferred operating system (e.g., Windows, Linux).

7. MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your motherboard.

7.1. Cleaning

- Regularly clean dust from the motherboard and cooling fan using compressed air.
- Ensure the system is powered off and disconnected from the power source before cleaning.
- Do not use liquid cleaners directly on the motherboard.

7.2. BIOS/Firmware Updates

Periodically check the JUTOPIPC official website for updated BIOS or firmware versions. Updating the BIOS can improve system stability, compatibility, and performance. Follow the instructions provided with the update package carefully.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

8.1. No Power

- Ensure the DC 12V power adapter is securely connected and providing power.
- Verify the ATX_12V connector is properly seated.
- Check the front panel power button connection to the FP1 header.

8.2. No Display Output

- Confirm the monitor is connected to the correct video output (VGA or HDMI) and is powered on.
- Try a different display cable or monitor.
- Reseat the memory modules.

8.3. System Instability / Crashes

- Ensure all components are properly seated (RAM, storage).
- Check for overheating; ensure the CPU fan is spinning and heatsink is clear of dust.
- Run memory diagnostic tools to check for faulty RAM.
- Update BIOS to the latest version.

9. SPECIFICATIONS

Detailed technical specifications for the JUTOPIPC i5-3317u Mini-ITX Motherboard.

Feature	Specification
Brand	JUTOPIPC
Model Number	i5-3317u
CPU	Integrated Intel Core i5-3317u
Compatible Devices	Desktop
RAM Memory Technology	DDR3
Memory Clock Speed	1866 MHz
Graphics Card Interface	Integrated
Memory Slots Available	2

Feature	Specification
Total USB Ports	6
Number of Ethernet Ports	2
System Bus Standard Supported	PCI Express
Platform	Windows
UPC / GTIN	764035904275
ASIN	B0DQPNXTHL

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official JUTOPIPC website or contact your point of purchase. Keep your proof of purchase for warranty claims.

- **Manufacturer:** JUTOPIPC
- **Website:** [www.jutopipc.com](#) (Placeholder, as no actual link is provided)
- **Contact:** Refer to manufacturer's website for support contact details.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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