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ASRock NUCS(slim) BOX-155H

ASRock NUCS(Slim) BOX-155H Mini PC Instruction Manual

Model: NUCS(slim) BOX-155H

1. Introduction

This manual provides essential information for setting up, operating, and maintaining your ASRock NUCS(Slim) BOX-155H Mini PC. Please read this guide thoroughly before using the device to ensure proper functionality and safety. The ASRock NUCS(Slim) BOX-155H is a compact and powerful mini PC featuring an Intel Core Ultra 7 processor, Intel Arc Graphics, and support for up to 96GB DDR5 memory, designed for various computing needs including gaming, personal use, and productivity.

2. Safety Information

- Always disconnect the power cord from the electrical outlet before cleaning or servicing.
- Do not expose the device to rain, moisture, or excessive humidity.
- Avoid placing the device near heat sources or in direct sunlight.
- Ensure proper ventilation; do not block any ventilation openings.
- Use only the power adapter provided or specified by the manufacturer.
- Keep the device away from strong magnetic fields.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.

3. Package Contents

Verify that all items are present in your package:

- ASRock NUCS(Slim) BOX-155H Mini PC Unit
- VESA Mount Kit
- Power Adapter (not explicitly listed but implied for a PC)
- Quick Start Guide (not explicitly listed but implied)
- Screws for storage installation (not explicitly listed but implied)
- Internal Battery (e.g., CMOS battery, if applicable for barebone)

Note: "Battery Pack" from the product data is interpreted as an internal CMOS battery for a barebone system.

"Vesamount" refers to the VESA mount kit.

4. Product Overview

The ASRock NUCS(Slim) BOX-155H Mini PC features a compact design with a variety of ports for connectivity and expansion. Below are descriptions of the main components and ports.



Figure 4.1: Front and Side View of the Mini PC. This image displays the front and side of the ASRock NUCS(Slim) BOX-155H Mini PC, highlighting its compact form factor and some front-facing ports. Visible features include ventilation grilles and a power button.



Figure 4.2: Rear View of the Mini PC. This image shows the rear panel of the ASRock NUCS(Slim) BOX-155H Mini PC, detailing the various input/output ports. These include HDMI ports for display output, USB ports for peripherals, and an Ethernet port for network connectivity.

Key Features and Ports:

- **Processor:** Intel Core Ultra processors (Meteor Lake-H) for high performance.
- **Memory:** 2 x 262-pin SO-DIMM slots supporting DDR5 5600MHz memory, up to 96GB total.
- **USB Ports:** 1 x USB4/Thunderbolt 4 port, 4 x USB 3.2 Gen2 ports.
- **Storage:** 2 x M.2 Key M slots for NVMe SSDs, 1 x SATA3 port for 2.5-inch drives.
- **Wireless Connectivity:** 1 x M.2 Key E slot for Wi-Fi 6E module.
- **Dimensions:** Compact size of 117.5 x 110.0 x 49mm (4.63" x 4.33" x 1.93").

- **Display Output:** Supports 4K Quad-Display configurations (specific ports not detailed in feature bullets, but implied by "4K Quad-Display" and rear image showing HDMI).
- **Network:** Dual 2.5G LAN ports for high-speed wired network connections.

5. Setup Instructions

5.1 Installing Memory (RAM)

1. Unscrew the bottom cover of the Mini PC and carefully remove it.
2. Locate the two SO-DIMM slots on the motherboard.
3. Align the notch on the DDR5 SO-DIMM module with the notch in the slot.
4. Insert the module at a 45-degree angle and push down until the clips on both sides snap into place.
5. Repeat for the second module if installing two.

5.2 Installing Storage (M.2 SSD / 2.5-inch SATA Drive)

1. With the bottom cover removed, locate the M.2 Key M slots for NVMe SSDs.
2. Insert the M.2 SSD into the slot at an angle and secure it with the provided screw.
3. For a 2.5-inch SATA drive, locate the SATA port and mounting bracket.
4. Connect the SATA data and power cables to the drive and the motherboard.
5. Secure the 2.5-inch drive in its designated bay with screws.

5.3 Connecting Peripherals

- **Display:** Connect your monitor(s) to the HDMI or Thunderbolt 4/USB-DP ports using appropriate cables.
- **Keyboard & Mouse:** Connect your USB keyboard and mouse to any available USB ports.
- **Network:** For a wired connection, connect an Ethernet cable to one of the 2.5G LAN ports.
- **Power:** Connect the power adapter to the DC-in jack on the Mini PC, then plug the power cord into an electrical outlet.

Note: If using a VESA mount, attach the mount to the back of a compatible monitor and then secure the Mini PC to the VESA mount before connecting cables.

6. Operating Instructions

6.1 Powering On/Off

- **Power On:** Press the power button located on the front or top of the Mini PC. The power indicator light will illuminate.
- **Power Off:**
    - **Standard Shutdown:** From your operating system, select "Shut down" from the power options.
    - **Force Shutdown:** If the system is unresponsive, press and hold the power button for approximately 5-10 seconds until the device powers off. Use this method only when necessary to prevent data loss.

6.2 Operating System Installation

The ASRock NUCS(Slim) BOX-155H supports Windows 10 and Windows 11 operating systems. To install an OS:

1. Prepare a bootable USB drive with your desired operating system installation media.

2. Connect the USB drive to an available USB port on the Mini PC.
3. Power on the Mini PC and repeatedly press the**Delete** or **F2** key (depending on BIOS version) to enter the BIOS/UEFI setup.
4. Navigate to the Boot menu and set your USB drive as the primary boot device.
5. Save changes and exit BIOS. The system will restart and boot from the USB drive, allowing you to proceed with the OS installation.

7. Maintenance

7.1 Cleaning

- Ensure the Mini PC is powered off and disconnected from the power outlet before cleaning.
- Use a soft, dry cloth to wipe the exterior surfaces.
- For stubborn marks, lightly dampen the cloth with water or a mild, non-abrasive cleaner.
- Use compressed air to clear dust from ventilation grilles and ports. Do not spray liquid directly onto the device.

7.2 Software Updates

Regularly update your operating system, drivers, and BIOS/UEFI firmware to ensure optimal performance, security, and compatibility. Visit the ASRock official website for the latest drivers and BIOS updates for your specific model.

7.3 Environmental Considerations

- Operate the Mini PC within recommended temperature and humidity ranges.
- Avoid placing the device in enclosed spaces that restrict airflow.
- Keep the device away from liquids and excessive dust.

8. Troubleshooting

Problem	Possible Cause	Solution
No power	Power cable not connected; faulty power adapter; power outlet issue.	Check power cable connections. Try a different power outlet. Ensure the power adapter is functioning correctly.
No display on monitor	Monitor cable loose; incorrect input selected on monitor; RAM not properly seated.	Ensure display cables are securely connected. Select the correct input source on your monitor. Re-seat RAM modules.
Operating System not booting	Incorrect boot order in BIOS; corrupted OS installation; faulty storage drive.	Check boot order in BIOS. Attempt OS repair or reinstallation. Verify storage drive health.
Peripheral (USB device) not detected	Driver issue; faulty USB port; device malfunction.	Try a different USB port. Update USB drivers. Test the peripheral on another computer.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact ASRock technical support for further assistance.

9. Specifications

Feature	Detail
Brand	ASRock
Series	NUCS(slim) BOX-155H Mini PC
Processor	Intel Core Ultra 7 (Meteor Lake-H), 1.2 GHz Intel_Mobile_CPU
Graphics Coprocessor	Intel ARC Graphics (Integrated)
RAM	DDR5 SDRAM, 2 x 262-pin SO-DIMM, 5600 MHz, up to 96GB (48GB per DIMM)
Storage Interface	2 x M.2 Key M (PCIe x4), 1 x SATA3
Wireless Type	802.11ax (Wi-Fi 6E module supported via M.2 Key E)
USB Ports	1 x USB4/Thunderbolt 4, 4 x USB 3.2 Gen2
LAN	Dual 2.5G LAN
Max Screen Resolution	4096x2160 (4K Quad-Display support)
Operating System Support	Windows 10, Windows 11
Item Weight	3.8 pounds
Dimensions (L x W x H)	117.5 x 110.0 x 49mm (4.63" x 4.33" x 1.93")
Color	Black
Specific Uses	Gaming, Personal

10. Warranty Information

ASRock products are covered by a limited warranty. The specific terms and duration of your warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the warranty card included with your product or visit the official ASRock website.

11. Technical Support

For technical assistance, driver downloads, BIOS updates, or further inquiries, please visit the official ASRock support website:
www.asrock.com/support.asp
You may also contact your local dealer or distributor for support.

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