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PELADN WO7

PELADN Mini PC Gaming WO7 User Manual

Model: WO7 | Brand: PELADN

1. INTRODUCTION

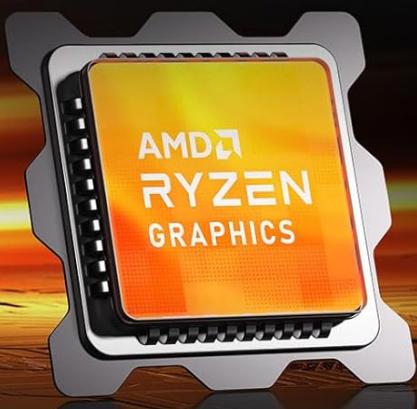
Welcome to the user manual for your new PELADN Mini PC Gaming WO7. This compact yet powerful desktop computer is designed for a wide range of applications, from gaming and multimedia to office productivity and professional tasks. Equipped with an AMD Ryzen 7 7735U processor, 16GB DDR5 RAM, and a 512GB NVMe SSD, it delivers exceptional performance and responsiveness. Please read this manual thoroughly to ensure proper setup, operation, and maintenance of your device.

2. PRODUCT OVERVIEW

2.1 Key Features

The PELADN Mini PC Gaming WO7 boasts a range of features designed for high performance and versatility:

AMD Radeon 680M



12 CU

GPU Frequency of 2200Mhz

AMD Ryzen 7 7735U

8 Cores
16 Threads

7 nm
Technology

4.75 GHz
Turbo Boost



16GB DDR5

SO-DIMM DDR5, up to 64GB

512 GB NVMe SSD

Support SSD PCIE3.0, Max support 4TB

Versatile Ports



OS

Cooling System

1. Silent fan
2. Heat Pipe/heat sink
3. Hard drive cooling cover



Figure 2.1.1: An overview of the PELADN Mini PC WO7's core specifications, highlighting its AMD Ryzen 7 7735U processor, AMD Radeon 680M graphics, 16GB DDR5 RAM, 512GB NVMe SSD, versatile ports, and efficient cooling system.

- **Processor:** AMD Ryzen 7 7735U (8 Cores/16 Threads, up to 4.75Ghz)

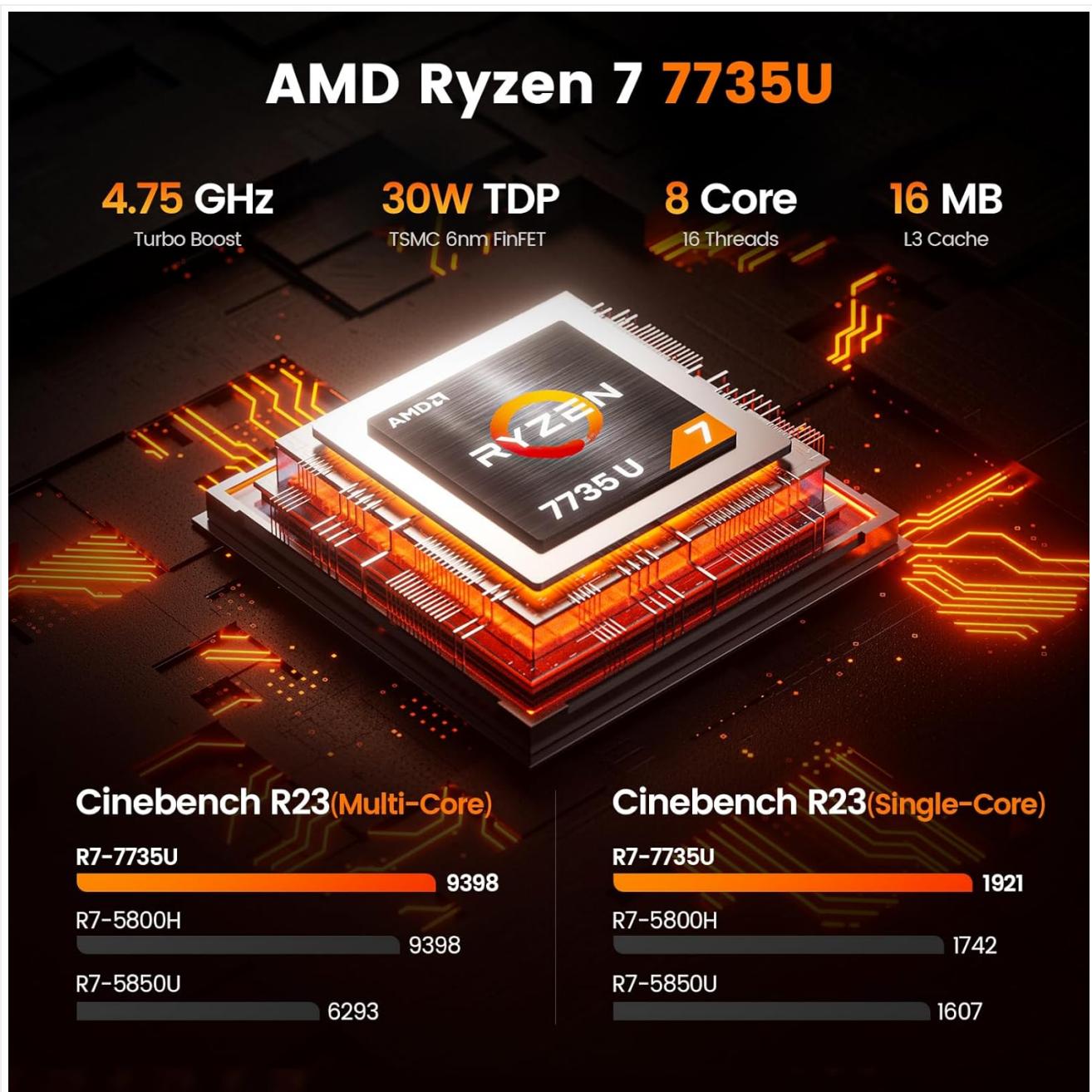


Figure 2.1.2: Detailed specifications of the AMD Ryzen 7 7735U processor, including its 4.75 GHz turbo boost, 30W TDP, 8 cores, 16 threads, and 16MB L3 cache, alongside its Cinebench R23 multi-core and single-core performance benchmarks.

- **Graphics:** Integrated AMD Radeon 680M GPU (12 CU, 2200 MHz)

AMD Radeon 680M

With 12 CU compute units and 4K UHD support, ensures smooth gaming, entertainment, and excellent multitasking and creativity

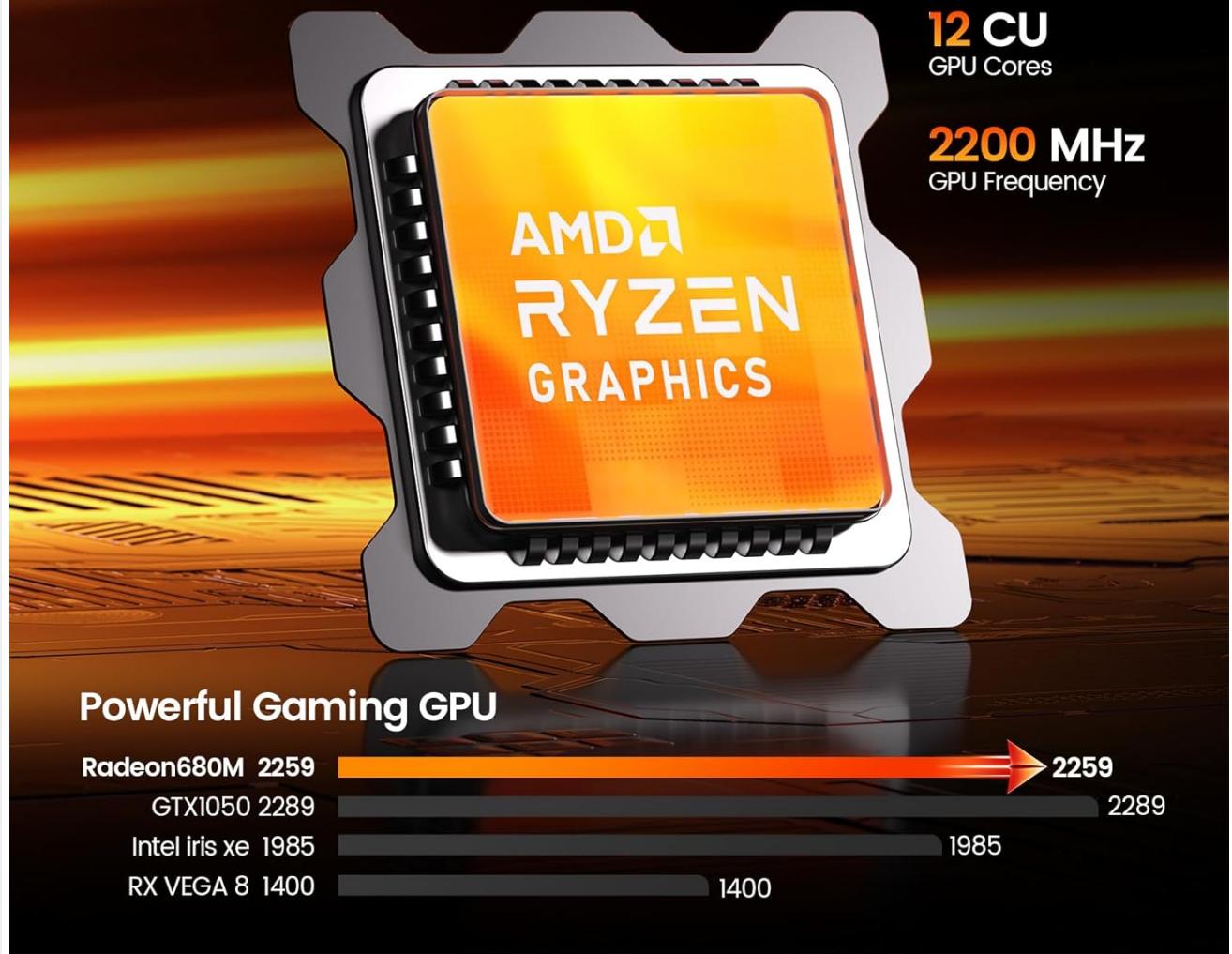


Figure 2.1.3: Information on the AMD Radeon 680M integrated graphics, highlighting its 12 compute units and 2200 MHz GPU frequency, designed for smooth gaming, entertainment, and multitasking.

- **Memory:** 16GB DDR5 RAM (expandable up to 64GB)
- **Storage:** 512GB NVMe SSD (PCIe 3.0, expandable up to 4TB)
- **Display Output:** Quadruple 4K/60Hz display support via DP, HD, and Dual Type-C ports
- **Wireless Connectivity:** WiFi 6 and Bluetooth 5.2
- **Operating System:** Pre-installed OS (supports Linux, Ubuntu)
- **Cooling System:** Efficient Peladn IceBlast 1.5 Cooling Technology with triple copper heat pipes and silent fan.



Figure 2.1.4: Diagram illustrating the Peladn IceBlast 1.5 Cooling Technology, featuring triple copper heat pipes, multiple fan blades, and a top heat conductor for efficient thermal management.

- **Compact Design:** Small form factor (0.46L volume) for space-saving and portability.



Figure 2.1.5: Visual representation of the PELADN Mini PC WO7's compact dimensions (113mm x 113mm x 36mm) and design elements such as durable housing, smooth rounded edges, and responsive physical buttons.

2.2 Components and Ports

Familiarize yourself with the various components and ports of your PELADN Mini PC WO7.



Figure 2.2.1: Front and side view of the PELADN Mini PC WO7, showcasing its compact design and various connectivity options.

Versatile Ports

For office,Business,Home and Gaming Use

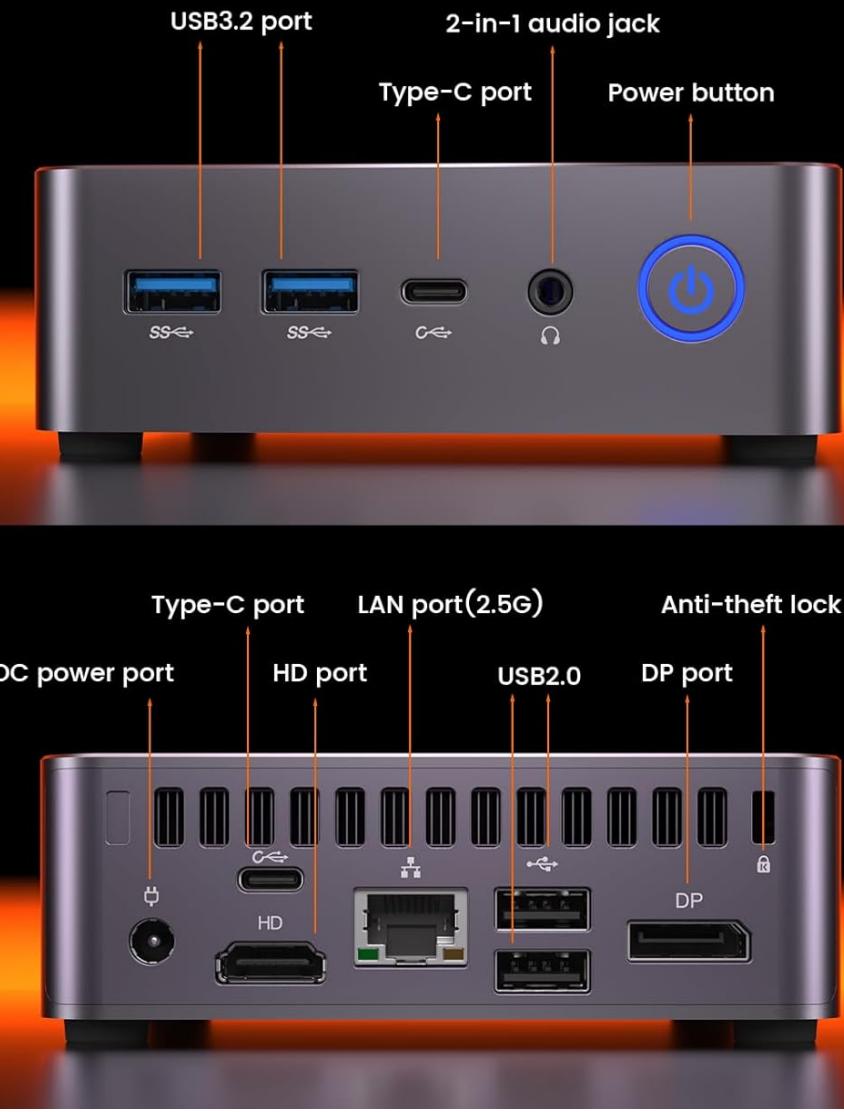


Figure 2.2.2: Detailed view of the front and rear ports of the PELADN Mini PC WO7. Front ports include 2x USB 3.2, 2x Type-C, 2-in-1 audio jack, and power button. Rear ports include DC power, HD, LAN (2.5G), 2x USB 2.0, DP, and anti-theft lock.

- **Front Panel:**

- 2 x USB 3.2 Ports
- 2 x Type-C USB 3.2 Ports
- 1 x 2-in-1 Audio Jack (Headphone & Microphone)
- 1 x Power Button

- **Rear Panel:**

- 1 x DC Jack (Power Input)
- 1 x HD 2.0 Port
- 1 x RJ45 LAN Port (2.5G)
- 2 x USB 2.0 Ports
- 2 x DP 1.4 Ports

- 1 x Anti-theft Lock Slot

3. SETUP GUIDE

3.1 What's in the Box

Before you begin, please verify that all items are present in the package:

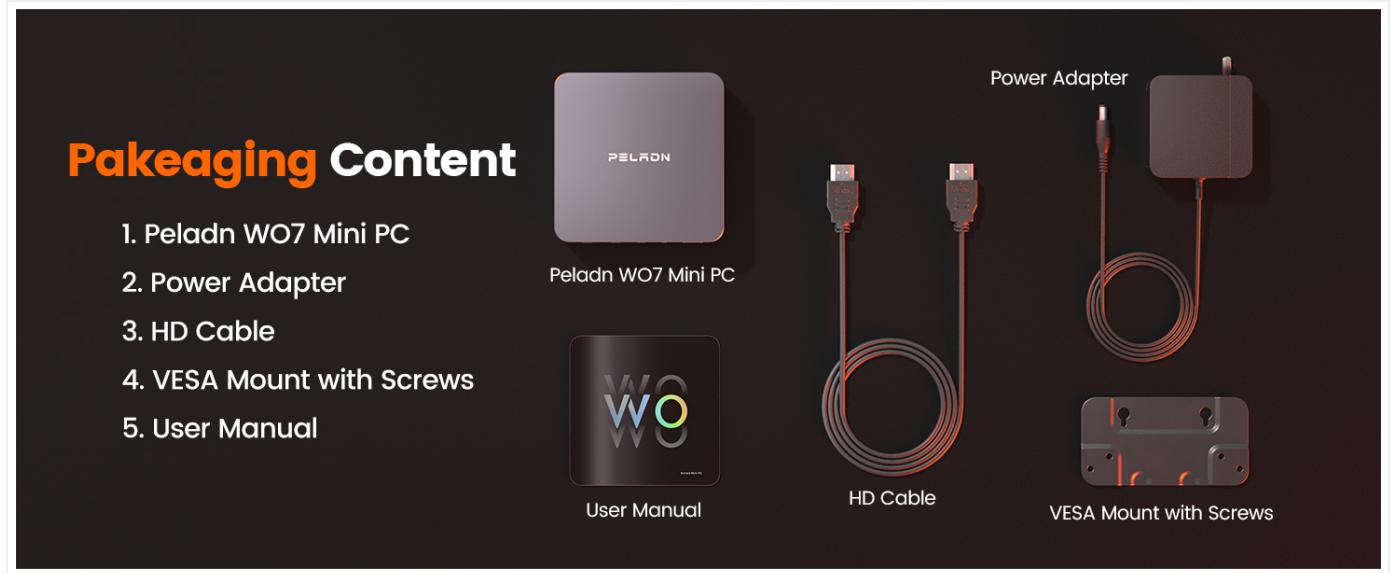


Figure 3.1.1: Contents of the PELADN Mini PC WO7 package, including the PC unit, power adapter, HD cable, VESA mount with screws, and user manual.

- 1 x PELADN WO7 Mini PC
- 1 x Power Adapter
- 1 x HD Cable
- 1 x VESA Mount with Screws
- 1 x User Manual (this document)

3.2 Connecting Your Mini PC

1. **Power Connection:** Connect the power adapter to the DC Jack on the rear panel of the Mini PC, then plug the adapter into a power outlet.
2. **Display Connection:** Connect your monitor(s) to the Mini PC using the HD, DP, or Type-C ports. The Mini PC supports up to four 4K displays simultaneously.

Quadruple Display Support

USB3.2 Type-C*2+DP 1.4+HD 2.0



Figure 3.2.1: Illustration of the PELADN Mini PC WO7 supporting a quadruple 4K display setup, demonstrating its versatile video output capabilities for enhanced productivity or entertainment.

- 3. Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB 3.2 or USB 2.0 ports.
- 4. Network Connection:** For a wired connection, connect an Ethernet cable to the RJ45 LAN port. For wireless, the Mini PC supports WiFi 6.
- 5. Audio Devices:** Connect headphones or speakers to the 2-in-1 audio jack on the front panel.

3.3 Initial Power On

Once all connections are secure, press the power button on the front panel to turn on the Mini PC. The system will boot into the pre-installed operating system. Follow the on-screen instructions for initial setup, including language, region, and network configuration.

4. OPERATING INSTRUCTIONS

4.1 Operating System

Your PELADN Mini PC comes with an operating system pre-installed. It also supports other operating systems like Linux and Ubuntu. For detailed instructions on using the operating system, please refer to the respective OS documentation.

4.2 Storage and Memory Expansion

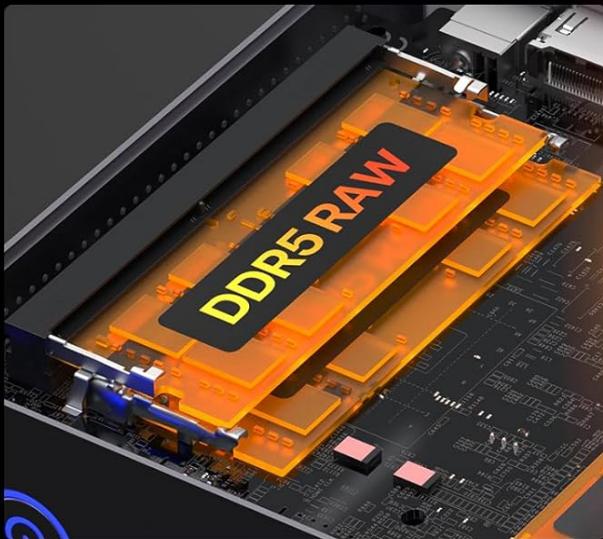
The Mini PC is equipped with 16GB DDR5 RAM and a 512GB NVMe SSD. For users requiring more memory or storage, the system supports expansion:

- **RAM:** Expandable up to 64GB DDR5 RAM.
- **SSD:** Supports M.2 NVMe SSD expansion up to 4TB.



Figure 4.2.1: Internal view highlighting the DDR5 RAM and NVMe SSD slots, illustrating the upgrade potential of the PELADN Mini PC WO7 for increased memory and storage capacity.

High Performance Without Delay



Equipped with 16GB DDR5 RAM

Speed increase 87%



87%
4800MHz

Equipped with 512GB NVMe SSD

(Support PCIe4.0 SSD, Do not support SATA SSD)

Speed increase



3500MB/s

Figure 4.2.2: Comparison of speed increases for DDR5 RAM (up to 4800MHz) and NVMe SSD (up to 3500MB/s), demonstrating the performance benefits of these components in the PELADN Mini PC W07.

Note: Upgrading internal components should be performed by users with technical expertise. Refer to the detailed upgrade guide (if available separately) or consult professional assistance to avoid damage.

4.3 Wireless Connectivity

The Mini PC features high-speed WiFi 6 and Bluetooth 5.2 for seamless wireless connections.

- WiFi 6:** Provides faster internet speeds for browsing, streaming, and gaming. Access network settings in your operating system to connect to available WiFi networks.
- Bluetooth 5.2:** Enables stable and efficient connection to various wireless devices such as keyboards, mice, headphones, and speakers. Pair devices through your operating system's Bluetooth settings.

High Speed WiFi6 Wireless Connectivity

Equipped with Wi-Fi 6 and BT 5.2 for fast,
stable performance in downloads, streaming, and gaming



Figure 4.3.1: Visual representation of the PELADN Mini PC WO7's advanced wireless capabilities, including WiFi 6 and Bluetooth 5.2 for enhanced connectivity and a smoother user experience.

5. MAINTENANCE

5.1 Cleaning

- Keep the Mini PC clean and free from dust. Use a soft, dry cloth for external surfaces.
- Periodically clean the ventilation holes to ensure proper airflow and prevent overheating. A can of compressed air can be used for this purpose.
- Do not use liquid cleaners or aerosol sprays directly on the device.

5.2 Optimal Placement

- Place the Mini PC on a stable, flat surface.
- Ensure adequate ventilation around the device. Avoid placing it in enclosed spaces or near heat sources.

- The included VESA mount allows for discreet mounting behind a monitor or TV, optimizing desk space.



Figure 5.2.1: The PELADN Mini PC WO7 demonstrating its portability, easily fitting into a bag, and the option for VESA mounting to save space and create a clean workstation.

5.3 Software Updates

Regularly update your operating system and drivers to ensure optimal performance, security, and compatibility. Refer to your operating system's documentation for instructions on checking and installing updates.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your PELADN Mini PC.

| Problem | Possible Cause | Solution |
|-------------------------------------|---|--|
| No power/System does not turn on | Power adapter not connected properly; Power outlet issue; Faulty power adapter. | Ensure power adapter is securely connected to both the PC and the outlet. Try a different power outlet. Test with another compatible power adapter if available. |
| No display on monitor | Display cable loose or incorrect; Monitor input not selected; Monitor faulty. | Check display cable connections (HD, DP, Type-C). Ensure the monitor is set to the correct input source. Test with a different monitor or cable. |
| Slow performance | Too many applications running; Insufficient RAM; Overheating. | Close unnecessary applications. Consider upgrading RAM if frequently experiencing slowdowns. Ensure proper ventilation and clean dust from vents. |
| Wi-Fi/Bluetooth connectivity issues | Driver issues; Interference; Incorrect settings. | Check Wi-Fi/Bluetooth drivers in Device Manager. Restart the Mini PC and your router/Bluetooth device. Ensure no strong interference sources are nearby. |
| System freezes or crashes | Software conflict; Driver issues; Overheating; Hardware malfunction. | Update drivers and operating system. Check for malware. Monitor temperatures. If issues persist, consider a system restore or professional diagnosis. |

If the problem persists after trying these solutions, please contact PELADN customer support for further assistance.

7. SPECIFICATIONS

Detailed technical specifications for the PELADN Mini PC Gaming WO7.

| Feature | Specification |
|-----------------------|---|
| Model | WO7 |
| Processor | AMD Ryzen 7 7735U (8C/16T, up to 4.75Ghz) |
| Graphics | Integrated AMD Radeon 680M (12 CU, 2200 MHz) |
| RAM | 16GB DDR5 (Expandable to 64GB) |
| Storage | 512GB NVMe SSD (PCIe 3.0, Max 4TB) |
| Display Output | HD 2.0, DP 1.4, 2x Type-C (Supports Quadruple 4K/60Hz Displays) |
| Wireless Connectivity | WiFi 6, Bluetooth 5.2 |
| LAN | 2.5G RJ45 Ethernet |
| USB Ports | 2x USB 3.2, 2x USB 2.0, 2x Type-C USB 3.2 |
| Audio | 1x 2-in-1 Audio Jack (HP&MIC) |
| Operating System | Pre-installed OS (Supports Linux, Ubuntu) |
| Dimensions | Approx. 113mm x 113mm x 36mm (0.46L volume) |
| Weight | Approx. 2.4 pounds |

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Your PELADN Mini PC Gaming WO7 comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official PELADN website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

8.2 Customer Support

For technical support, troubleshooting assistance, or any inquiries regarding your PELADN Mini PC, please contact our customer support team:

- Online Support:** Visit the official PELADN store on Amazon ([PELADN Store on Amazon](#)) for FAQs, driver downloads, and contact information.
- Email Support:** Refer to your product packaging or the official website for the dedicated support email address.

When contacting support, please have your product model (WO7) and purchase details ready.

