

## AtomMan G7 PT-7945HX

# AtomMan G7 PT Mini PC User Manual

Model: G7 PT-7945HX

## 1. INTRODUCTION

Thank you for choosing the AtomMan G7 PT Mini PC. This powerful and compact computing device is designed to deliver exceptional performance for gaming, content creation, and professional tasks. Featuring an AMD Ryzen 9 7945HX processor and AMD Radeon RX 7600M XT graphics, alongside advanced cooling and high-speed connectivity, the G7 PT offers a premium computing experience in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new Mini PC.

## 2. SAFETY INFORMATION

Please read and follow these safety guidelines to ensure safe and optimal operation of your AtomMan G7 PT Mini PC:

- Use only the power adapter provided with the device. Using an incompatible adapter may cause damage or fire.
- Do not expose the Mini PC to water, moisture, or extreme temperatures. Operate it in a dry, well-ventilated environment.
- Avoid blocking ventilation openings. Proper airflow is crucial for heat dissipation.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from strong magnetic fields.
- Handle with care to prevent physical damage.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- AtomMan G7 PT Mini PC
- Power Adapter
- Power Cable
- HDMI Cable

- Base Bracket
- Instruction Manual (this document)

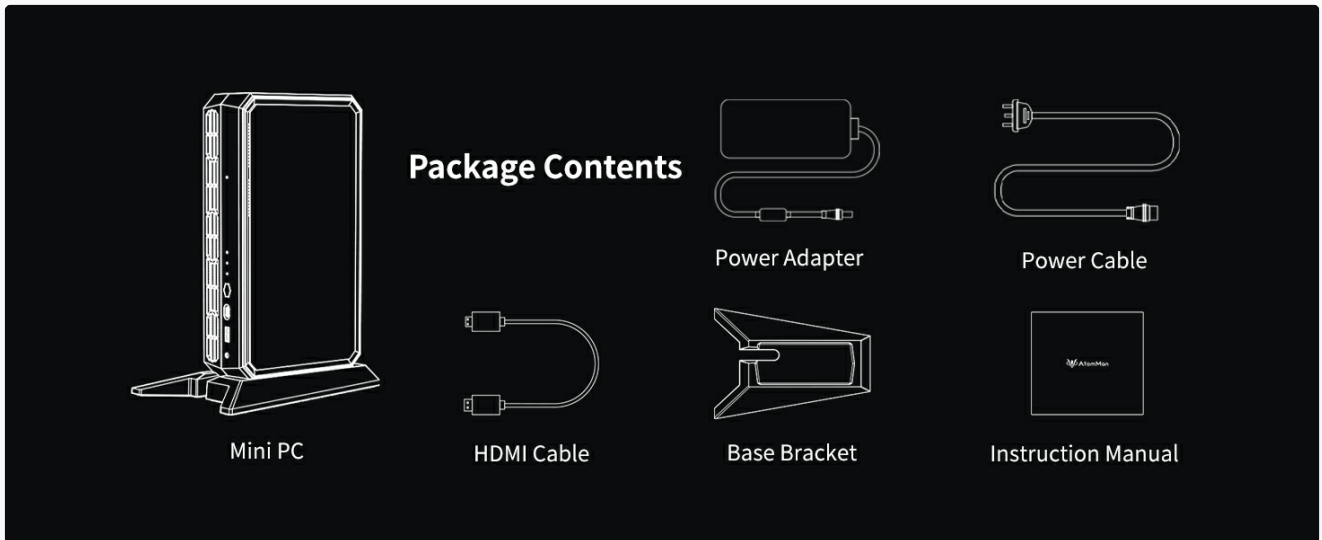


Figure 3.1: Package Contents

## 4. PRODUCT OVERVIEW

The AtomMan G7 PT Mini PC is designed for both aesthetic appeal and functional efficiency. Its compact vertical design saves desk space, while the dual RGB backlights add a customizable visual element.



Figure 4.1: AtomMan G7 PT Mini PC Front View

#### 4.1. Ports and Connectors

Familiarize yourself with the various ports and connectors on your Mini PC:

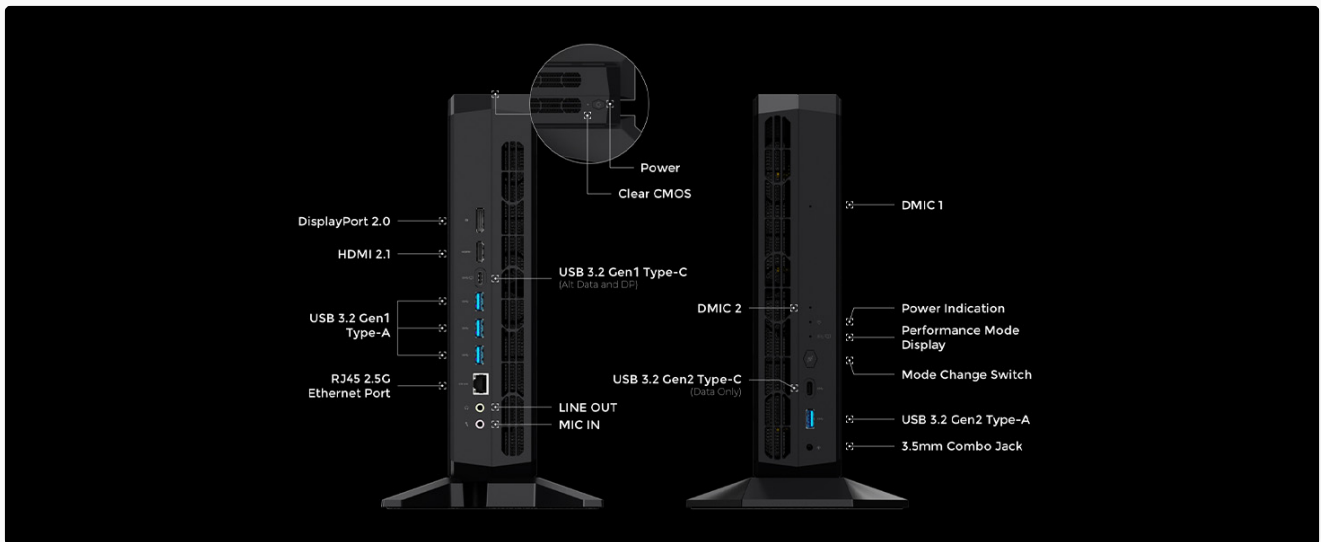


Figure 4.2: Port Layout

- **Front Panel:** Power button, 2x USB 3.2 Gen1 Type-A, 1x USB 3.2 Gen1 Type-C, 3.5mm Audio Jack (Headphone/Mic Combo).
- **Rear Panel:** 1x HDMI 2.1, 1x DisplayPort 2.0, 2x USB 3.2 Gen2 Type-A, 1x USB 3.2 Gen2 Type-C, 1x 2.5G RJ45 Ethernet Port, Line Out, Mic In, Power Input.

## 5. SETUP

Follow these steps to set up your AtomMan G7 PT Mini PC:

1. **Place the Mini PC:** Position the Mini PC on a stable, flat surface with adequate ventilation. Use the included base bracket for vertical orientation.
2. **Connect Display:** Connect your monitor(s) to the Mini PC using an HDMI or DisplayPort cable. The device supports up to three 4K displays simultaneously via HDMI 2.1, DP 2.0, and USB-C.

# Triple Display Support

HDMI2.1 DP2.0 USB-C

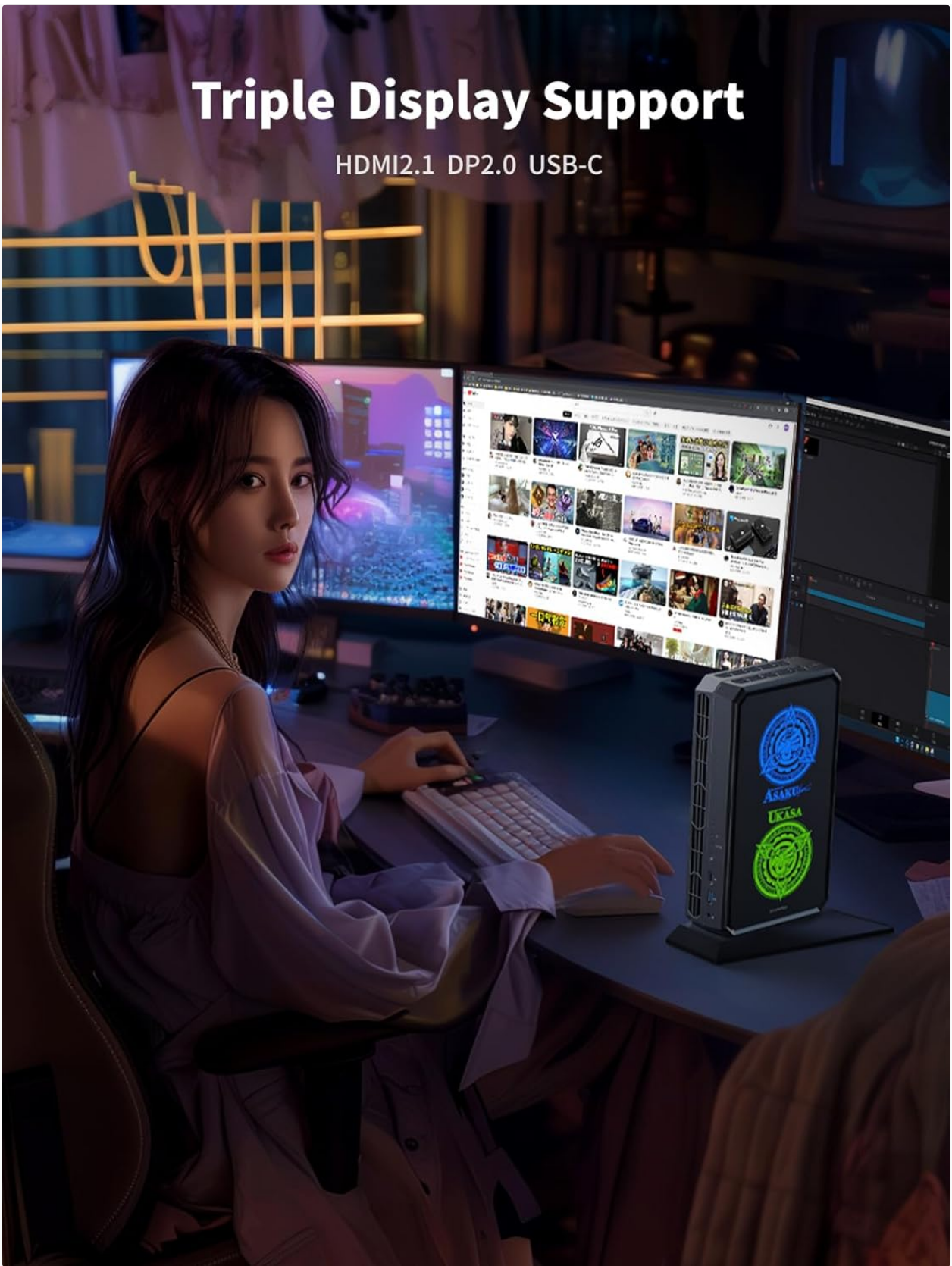


Figure 5.1: Triple Display Setup

3. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB ports.
4. **Connect to Network:** For wired internet, connect an Ethernet cable to the 2.5G RJ45 port. For wireless internet, the device supports Wi-Fi 7.
5. **Connect Power:** Connect the power adapter to the Mini PC's power input port, then plug the power cable into a wall outlet.

## 6. OPERATING

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### 6.1. Power On/Off

- **Power On:** Press the power button located on the front panel. The power indicator light will illuminate.
- **Power Off:** To shut down, go to the operating system's Start menu and select 'Shut down'. Alternatively, press and hold the power button for a few seconds to force a shutdown (not recommended for regular use).

### 6.2. Key Features

- **Processor:** Equipped with an AMD Ryzen 9 7945HX processor (16 cores/32 threads, up to 5.4GHz) for high-performance computing.

# World's First AMD Advantage Certified Mini PC

Equipped with AMD Smart Access Memory Function



Figure 6.1: AMD Ryzen 9 7945HX Processor

- **Graphics:** Features an AMD Radeon RX 7600M XT independent graphics card (8GB GDDR6) for demanding visual tasks and gaming.

# Large Memory, Large Storage

2x RAM slots + 2x M.2 SSD slots

1xM.2 PCIE5.0  
1xM.2 PCIE4.0  
SSD slot up to 4TB



Dual-channel DDR5  
SODIMM slot up to 64GB

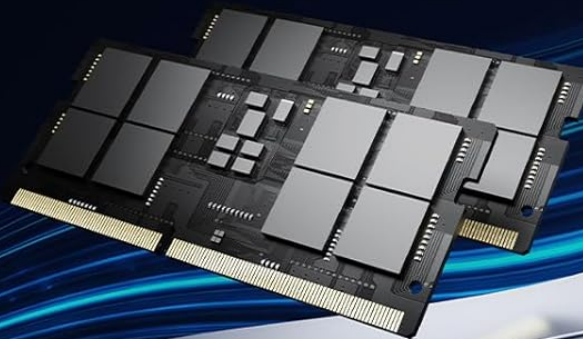


Figure 6.2: AMD Radeon RX 7600M XT Graphics

- **Cooling System:** The Cold Wave Ultra Cooling system supports up to 205W TDP, utilizing dual liquid gold cooling and a three-fan system to maintain optimal temperatures and low noise levels.

# Cold Wave Ultra Cooling System

Based on the exclusive patent technology of the Cold Wave Ultra cooling architecture, up to 205W whole-machine cooling capacity



Figure 6.3: Cold Wave Ultra Cooling System

- **Storage & Memory:** Supports DDR5-5200 SODIMM memory (up to 96GB) and features one M.2 2280 PCIe5.0 SSD slot and one M.2 2280 PCIe4.0 SSD slot for high-speed storage.
- **Networking:** Integrated Wi-Fi 7 and 2.5G RJ45 Ethernet port provide fast and stable network connections.

# Ultra High Speed Network

Wi-Fi 7 BlueTooth 5.4 5000Mbps



Figure 6.4: Wi-Fi 7 Connectivity

- **RGB Backlights:** The new panel design features dual RGB backlights, which can be customized or turned off via BIOS settings.

# Dual RGB Backlight Patterns



Figure 6.5: Dual RGB Backlight Patterns

## 7. MAINTENANCE

Regular maintenance helps prolong the life and performance of your Mini PC:

- **Cleaning:** Use a soft, dry cloth to clean the exterior. For dust accumulation in vents, use compressed air. Ensure the device is powered off and unplugged before cleaning.
- **Software Updates:** Regularly update your operating system, drivers, and applications to ensure optimal

performance, security, and compatibility.

- **Ventilation:** Ensure the Mini PC's ventilation openings are clear and not obstructed by objects or dust.
- **Storage Management:** Periodically clean up unnecessary files and programs to free up storage space and improve system responsiveness.

## 8. TROUBLESHOOTING

If you encounter issues with your AtomMan G7 PT Mini PC, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power/Does not turn on	Power cable loose, power adapter faulty, power outlet issue.	Check power connections. Try a different power outlet. Ensure power adapter is correctly connected.
No display on monitor	Display cable loose, incorrect input selected on monitor, driver issue.	Ensure display cable is securely connected. Select correct input source on monitor. Update graphics drivers.
No internet connection	Ethernet cable loose, Wi-Fi disabled, router issue, driver issue.	Check Ethernet cable. Ensure Wi-Fi is enabled and connected to correct network. Restart router. Update network drivers.
System slow or unresponsive	Too many applications running, low storage space, overheating.	Close unnecessary applications. Free up disk space. Ensure proper ventilation.
Peripheral not detected	Loose connection, driver issue, faulty peripheral.	Reconnect peripheral. Try a different USB port. Install/update drivers for the peripheral. Test peripheral on another device.

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

## 9. SPECIFICATIONS

Detailed technical specifications for the AtomMan G7 PT Mini PC:

Feature	Description
Processor	AMD Ryzen 9 7945HX (16 Cores, 32 Threads, up to 5.4 GHz)
Graphics	AMD Radeon RX 7600M XT (8GB GDDR6)
RAM	32 GB DDR5 (5200 MHz, expandable up to 96GB)
Storage	1 TB SSD (1x M.2 2280 PCIe5.0 slot, 1x M.2 2280 PCIe4.0 slot)
Operating System	OS (Pre-installed)
Wireless Connectivity	Wi-Fi 7 (802.11.be), Bluetooth 5.4
Wired Connectivity	2.5G RJ45 Ethernet Port

Feature	Description
Video Output	1x HDMI 2.1, 1x DisplayPort 2.0, 1x USB-C (supports display output)
USB Ports	4x USB 3.0 (Type-A), 2x USB-C
Audio Ports	3.5mm Combo Jack, Line Out, Mic In
Dimensions	11.89 x 10.63 x 5 inches (Package)
Weight	9.57 pounds (Item)
Color	Black

## 10. WARRANTY AND SUPPORT

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AtomMan provides a manufacturer's warranty for the G7 PT Mini PC. For specific warranty terms, duration, and conditions, please refer to the warranty card included in your product packaging or visit the official AtomMan website. Keep your proof of purchase for warranty claims.

### 10.1. Customer Support

If you require technical assistance, have questions about your product, or need to initiate a warranty claim, please contact AtomMan customer support through their official channels. Contact information can typically be found on the AtomMan website or in the product documentation.