

Thomson W3

Thomson W3 Mini PC User Manual

Model: W3

1. INTRODUCTION

Thank you for choosing the Thomson W3 Mini PC. This compact and powerful desktop computer is designed for a wide range of applications, from professional office tasks and creative work to gaming and home entertainment. Featuring an AMD Ryzen 7 260 processor with AI engine, AMD Radeon 780M graphics, 32GB DDR5 RAM, and a 1TB NVMe SSD, the W3 Mini PC delivers exceptional performance and versatility. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.

2. PACKAGE CONTENTS

Please check the box for the following items:

- 1 x Thomson W3 Mini PC
- 1 x HDMI Cable
- 1 x VESA Support
- 1 x Power Adapter
- 1 x User Manual (this document)

If any items are missing or damaged, please contact your retailer or Thomson customer support.

3. PRODUCT OVERVIEW

The Thomson W3 Mini PC is engineered for high performance in a small form factor. Below are key features and a diagram of its interfaces.

THOMSON

W3 Mini PC

Minimalist Power, Maximum Impact.
Now with AI.



- | | | | | | | |
|---|---|--|---|--|--|--|
| 
AMD Ryzen
7 260 | 
AMD Radeon
780M | 
32GB DDR5
5600MHz Dual Channel | 
1TB
PCIe4.0 SSD | 
USB4, HDMI2.1
DP2.0 | 
WiFi 6E | 
2.5GbE
LAN |
|---|---|--|---|--|--|--|

Image: The Thomson W3 Mini PC showcasing its compact design and highlighting its AI capabilities, AMD Ryzen 7 260 processor, AMD Radeon 780M graphics, 32GB DDR5 RAM, 1TB PCIe 4.0 SSD, USB4, HDMI 2.1, DP 2.0, WiFi 6E, and 2.5GbE LAN.

3.1. Processor and Graphics

The W3 Mini PC is powered by an **AMD Ryzen 7 260 processor** with an advanced "Zen 4" architecture, featuring 8 cores and 16 threads, boosting up to 5.1 GHz. It includes an **AMD Ryzen AI Engine** for enhanced AI processing capabilities, reaching up to 38 TOPS. The integrated **AMD Radeon 780M GPU** (RDNA 3 architecture) provides robust graphics performance, supporting 8K Ultra HD output.

Powered by AMD Ryzen 7 260

Performance Leap

Outperform the Core i7-1280P
by 44% - Unleash Professional
Workflows and Seamless Gaming.

Zen4
Architecture

5.1GHz
Boost

16MB
L3 cache

54W
TDP



Image: A technical diagram illustrating the architecture of the AMD Ryzen 7 260 processor, highlighting its Zen4 architecture, 5.1GHz boost clock, 16MB L3 cache, and 54W TDP.

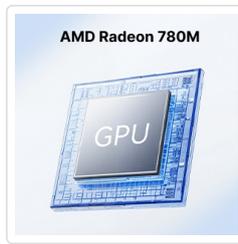


Image: A detailed diagram of the AMD Radeon 780M GPU chip.



Image: An illustration of the AMD Ryzen AI engine, indicating up to 16 TOPS of NPU performance.

3.2. Memory and Storage

The device comes with **32GB of dual-channel DDR5 5600MHz RAM** (16GB x 2), expandable up to 96GB. For storage, it includes a **1TB M.2 NVMe PCIe 4.0 x4 SSD**, which can be expanded up to 4TB.

Expandable memory, free to match

Exceptional scalability to meet growing storage demands.

Memory

32GB (16GB x 2) DDR5 5600MHz

Dual SO-DIMM DDR5 slots, up to 96GB

Storage

1TB M.2 NVMe PCIe 4.0 x4 SSD

Dual M.2 slots, up to 4TB



Image: An internal view of the Mini PC, illustrating the dual SO-DIMM DDR5 slots for expandable memory (up to 96GB) and dual M.2 slots for expandable storage (up to 4TB).

3.3. Connectivity

The W3 Mini PC offers high-speed connectivity with **WiFi 6E** (supporting 2.4 GHz, 5 GHz, and 6 GHz bands) and **Bluetooth 5.2**. It also features a **2.5 GbE LAN port** for wired network connections.



Image: An icon representing Bluetooth 5.2 technology.

3.4. Ports and Interfaces

The Mini PC provides a comprehensive set of ports for connecting various peripherals and displays.

Versatile Connectivity

Front interface Power Button ×1 Audio Jack ×1 USB4 Type-C×1 (DATA/DP/PD100W) USB3.2 Gen2 Type-A ×2 (10Gbps)	Rear interface 2.5GbE LAN DP 2.0×1 USB3.2 Gen1 Type-A ×4 (5Gbps) HDMI 2.1 ×1 DC ×1
--	--



Connect all your devices


Monitor


Keyboard


Printer


HDTV


Projector


Headphones

Image: A diagram illustrating the front and rear interfaces of the Thomson W3 Mini PC, detailing the location of each port.

• **Front Interface:**

- 1 x Power Button
- 1 x USB4 Type-C (40 Gbps, Data/DP/PD100W)
- 2 x USB 3.2 Gen2 Type-A (10 Gbps)
- 1 x Audio Jack (3.5mm)

• **Rear Interface:**

- 1 x 2.5 GbE LAN Port
- 1 x DP2.0 Port
- 4 x USB 3.2 Gen1 Type-A Ports (5 Gbps)
- 1 x HDMI 2.1 Port
- 1 x DC-in Port

3.5. Display Output

The W3 Mini PC supports triple display output via USB4 Type-C, HDMI 2.1, and DP 2.0, allowing for

8K@60Hz ultra-clear visuals. This enables an expanded visual workspace for productivity and immersive entertainment.

Expanded Vision, Precise Control

Delivering crystal-clear visuals for professional creation and entertainment.



HDMI2.1



USB4 Type-C

(Supports 4K@120Hz or 8K@60Hz)



DP2.0

(Supports 4K@120Hz or 8K@60Hz)



Image: A workstation setup demonstrating the Thomson W3 Mini PC connected to three monitors, showcasing its triple display output capability via HDMI 2.1, USB4 Type-C, and DP 2.0.

4. SETUP GUIDE

Follow these steps to set up your Thomson W3 Mini PC:

1. **Unpack the Mini PC:** Carefully remove all components from the packaging.
2. **Connect to a Display:** Connect your monitor(s) to the Mini PC using an HDMI, DisplayPort (DP), or USB4 Type-C cable. The Mini PC supports up to three displays simultaneously.
3. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB ports.
4. **Connect to Network:** For a wired connection, connect an Ethernet cable from your router/modem to the 2.5 GbE LAN port. For wireless, ensure your WiFi network is available after initial setup.
5. **Connect Power:** Connect the power adapter to the DC-in port on the Mini PC, then plug the adapter into a power outlet.
6. **Power On:** Press the power button located on the front of the Mini PC. The system will boot up.
7. **Initial Setup:** Follow the on-screen instructions to complete the operating system setup, including language, region, network connection, and user account creation.

5. OPERATING INSTRUCTIONS

5.1. Power Management

- **Power On:** Press the power button once.
- **Shut Down:** From the operating system, select "Shut down." Do not unplug the power adapter directly without proper shutdown to prevent data loss.

- **Restart:** From the operating system, select "Restart."
- **Sleep Mode:** From the operating system, select "Sleep." Press any key or the power button to wake the system.

5.2. Connecting to Wi-Fi

1. Ensure the Mini PC is powered on.
2. Access the network settings in your operating system.
3. Select your desired Wi-Fi network from the list of available networks.
4. Enter the Wi-Fi password if prompted and click "Connect."

5.3. Connecting Bluetooth Devices

1. Ensure the Mini PC is powered on and Bluetooth is enabled in the operating system settings.
2. Put your Bluetooth device into pairing mode.
3. In the operating system's Bluetooth settings, search for new devices.
4. Select your device from the list and follow any on-screen prompts to complete pairing.

5.4. Expanding Memory and Storage

The Thomson W3 Mini PC allows for memory and storage upgrades. Refer to the internal diagram in Section 3.2. For detailed instructions on how to open the chassis and install components, please consult a qualified technician or refer to specific online guides for Mini PC upgrades. Always ensure the device is powered off and unplugged before performing any internal modifications.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Mini PC.

- **Cleaning:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to clear dust from ventilation openings. Do not use liquid cleaners directly on the device.
- **Ventilation:** Ensure the Mini PC is placed in a well-ventilated area. Do not block the air vents.
- **Software Updates:** Keep your operating system, drivers, and applications updated to ensure security and performance.
- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss.
- **Environmental Conditions:** Operate the Mini PC within recommended temperature and humidity ranges. Avoid extreme heat, cold, or moisture.

7. TROUBLESHOOTING

If you encounter issues with your Thomson W3 Mini PC, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power/System does not turn on	Power adapter not connected; Power outlet issue; Faulty power adapter	Ensure power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet.

Problem	Possible Cause	Solution
No display on monitor	Display cable loose or incorrect; Monitor off or on wrong input; Graphics driver issue	Check display cable connections. Ensure monitor is powered on and set to the correct input source. Restart the Mini PC.
Wi-Fi connection issues	Incorrect password; Router issue; Driver issue	Verify Wi-Fi password. Restart your router. Check Wi-Fi driver status in Device Manager.
Bluetooth device not connecting	Device not in pairing mode; Bluetooth disabled; Driver issue	Ensure Bluetooth device is in pairing mode. Verify Bluetooth is enabled on the Mini PC. Update Bluetooth drivers.
System slow or unresponsive	Too many applications running; Low disk space; Overheating; Malware	Close unnecessary applications. Free up disk space. Ensure proper ventilation. Run antivirus scan.

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

8. SPECIFICATIONS

Detailed technical specifications for the Thomson W3 Mini PC:

Feature	Specification
Brand	Thomson
Model	W3
Processor	AMD Ryzen 7 260 (8 Cores/16 Threads, up to 5.1 GHz, 16 MB L3 Cache)
AI Engine	AMD Ryzen AI Engine (up to 38 TOPS)
Graphics	AMD Radeon 780M (RDNA 3 Architecture, up to 2700 MHz)
RAM	32GB DDR5 5600MHz (16GB x 2), Dual-Channel, expandable up to 96GB
Storage	1TB M.2 NVMe PCIe 4.0 x4 SSD, expandable up to 4TB
Wireless Connectivity	WiFi 6E (2.4 GHz/5 GHz/6 GHz Tri-Band), Bluetooth 5.2
Wired Network	2.5 GbE LAN
Video Output	1 x HDMI 2.1, 1 x DP 2.0, 1 x USB4 Type-C (supports 8K@60Hz triple display)
USB Ports	1 x USB4 Type-C (40 Gbps), 2 x USB 3.2 Gen2 Type-A (10 Gbps), 4 x USB 3.2 Gen1 Type-A (5 Gbps)
Audio Port	1 x 3.5mm Audio Jack

Feature	Specification
Power Input	DC-in
Operating System	OS (Pre-installed)
Dimensions (Package)	16.3 x 16.3 x 11.2 cm
Weight (Package)	1.35 kg

9. WARRANTY AND SUPPORT

Thomson products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Thomson website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or service inquiries, please contact Thomson customer support through their official channels. Keep your purchase receipt and product serial number handy when contacting support.

10. USAGE SCENARIOS

The Thomson W3 Mini PC is versatile and suitable for various environments:

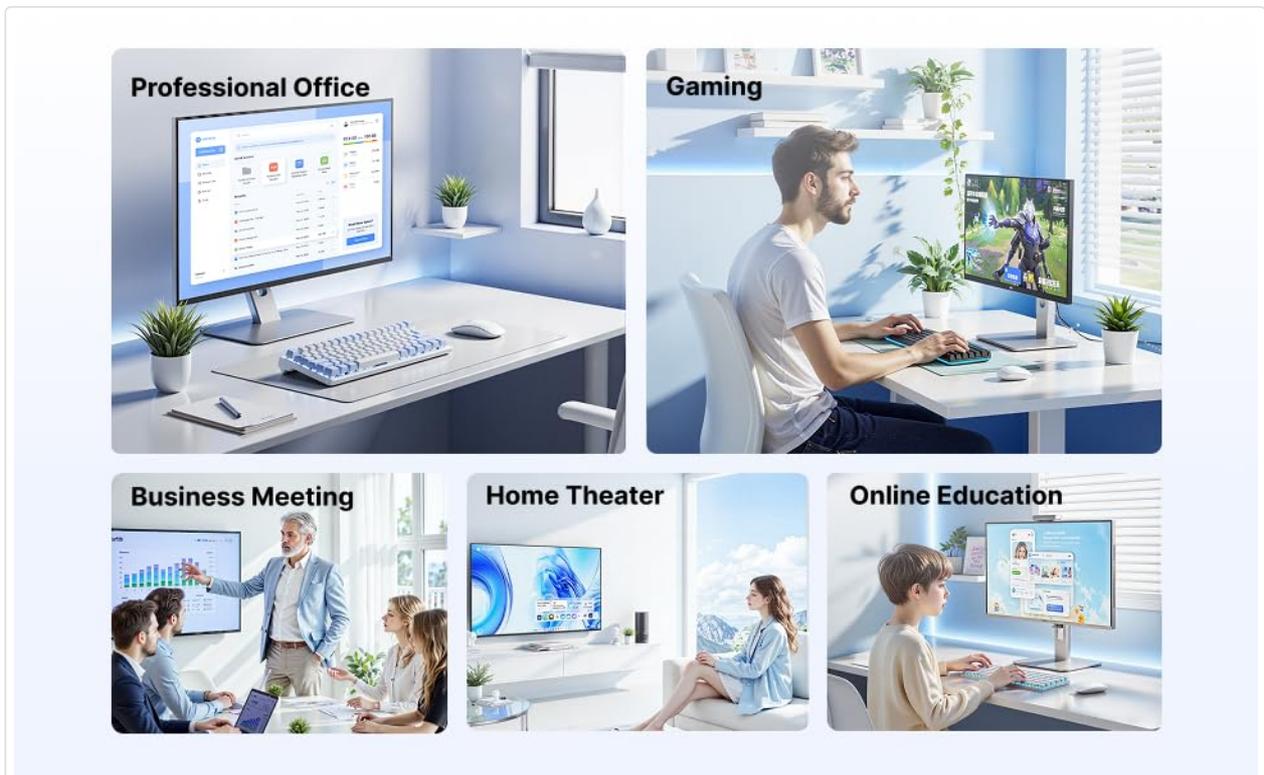


Image: A collage depicting various applications of the Mini PC, including professional office work, gaming, business meetings, home theater setups, and online education.

- **Professional Office:** Ideal for demanding office applications, multitasking, and data analysis.
- **Gaming:** Capable of running many mainstream games with its integrated AMD Radeon 780M graphics.
- **Business Meetings:** Perfect for presentations and video conferencing.
- **Home Theater:** Supports 8K output for an immersive entertainment experience.

- **Online Education:** Provides a stable and powerful platform for e-learning and virtual classrooms.