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Thunderobot Mix Gaming Mini PC User Manual

Model: T Mix 13i7 4060 16G+512G

Brand: Thunderobot

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Thunderobot Mix Gaming Mini PC. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- Thunderobot Mix Gaming Mini PC Unit
- Power Adapter
- Power Cord
- HDMI Cable
- VESA Mount Kit (with screws)
- User Manual

3. PRODUCT OVERVIEW

The Thunderobot Mix Gaming Mini PC is designed for high performance in a compact form factor. Its sleek design integrates advanced cooling and versatile connectivity.



Figure 3.1: Thunderobot Mix Mini PC showcasing its compact dimensions (259.5mm x 165mm) and comparison to a traditional desktop and notebook.

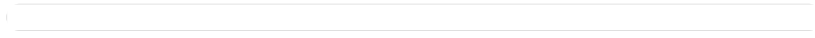


Figure 3.2: Front view of the Thunderobot Mix Mini PC, highlighting the light gradient Thor Logo and innovative linen side texture for enhanced heat dissipation.

Ports and Interfaces



Figure 3.3: Detailed diagram of the Thunderobot Mix Mini PC's multiple interfaces, including USB-C 3.2 G2, USB-A 3.2 G2, HDMI 2.1, Power Input, Power Switch, 2-in-1 earphone hole, RJ-45 network port, and Kensington lock hole.

- **Front Ports:** 1x USB-C 3.2 Gen 2 (supports DP1.4/100W charging), 2x USB-A 3.2 Gen 2, 1x 2-in-1 Earphone/Microphone Jack, Power Button.
- **Rear Ports:** 1x DC Power Input, 2x HDMI 2.1, 1x 1.0 Gbps RJ-45 Ethernet, 2x USB-A 3.2 Gen 1, 2x USB-C (Thunderbolt compatible, supports display output).
- **Side Ports:** 1x SD Card Slot, 1x Kensington Lock Hole.

Cooling System

The Mini PC features an advanced cooling system to maintain optimal performance during intensive tasks.



Figure 3.4: Internal view of the Thunderobot Mix Mini PC's fresh air cooling system, showing the double 5V high-pressure turbine fan, five copper tubes, three air inlets, and 129 ultra-thin heat dissipation fins.

4. SETUP

1. **Connect to Power:** Plug the power adapter into the DC Power Input port on the rear of the Mini PC, then connect the power cord to a wall outlet.
2. **Connect to Display:** Use an HDMI cable to connect your monitor or TV to one of the HDMI 2.1 ports on the rear of the Mini PC. Alternatively, use a USB-C to DisplayPort cable for compatible monitors.
3. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB-A or USB-C ports.
4. **Network Connection:** For a wired connection, plug an Ethernet cable into the RJ-45 network port. For wireless, the Mini PC supports Wi-Fi 6E and Bluetooth 5.2.
5. **Power On:** Press the Power Button located on the front of the Mini PC.

5. OPERATING INSTRUCTIONS

Your Thunderobot Mix Gaming Mini PC comes pre-installed with Windows 11. Follow the on-screen instructions for initial setup of the operating system.

Basic Operation

- **Power On/Off:** Press the power button once to turn on. To shut down, use the Windows Start Menu options. A long press (5 seconds) on the power button will force a shutdown.
- **Display Output:** The Mini PC supports multiple displays via its HDMI and USB-C ports. Configure display settings within Windows.
- **Audio:** Connect headphones or speakers to the 2-in-1 audio jack or use HDMI audio output.

6. UPGRADING COMPONENTS

The Thunderobot Mix Mini PC is designed for easy upgrades to enhance its performance and storage capacity.

RAM Upgrade

The Mini PC features two DDR4 memory slots, supporting dual-channel configuration. It is expandable up to 64GB (using two 32GB DIMMs).

1. Power off the device and disconnect all cables.
2. Carefully remove the bottom cover by unscrewing the retaining screws.
3. Locate the DDR4 SODIMM slots. Gently push the clips on both sides of the existing RAM module outwards to release it.
4. Insert the new RAM module(s) into the slots, ensuring they are correctly aligned, and push down until the clips snap into place.
5. Replace the bottom cover and secure the screws.

Storage Upgrade

The Mini PC includes an M.2 22x80 key M slot for PCIe x4 Gen 4 NVMe SSDs, supporting up to 2TB. Additionally, it supports a 2.5-inch SATA hard drive (SSD/HDD) up to 2TB.

1. Power off the device and disconnect all cables.
2. Remove the bottom cover as described for RAM upgrade.
3. **For M.2 SSD:** Locate the M.2 slot. If upgrading, remove the existing M.2 SSD. Insert the new M.2 SSD at an angle and secure it with the provided screw.
4. **For 2.5-inch SATA Drive:** The bottom cover assembly includes a bracket for a 2.5-inch drive. Secure your 2.5-inch SSD/HDD into this bracket and connect it via the internal SATA ribbon cable.

5. Replace the bottom cover and secure the screws.

7. SPECIFICATIONS

Feature	Specification
Processor	13th Gen Intel Core i7-13620H (10 Cores, 16 Threads, up to 4.9GHz Turbo Boost, 24MB L3 cache)
Graphics Card	NVIDIA RTX 4060 (Dedicated, 8GB GDDR6 video memory, 16Gbps equivalent memory rate)
Memory (RAM)	16GB LPDDR5-5200 (32-Bit Dual-channel, expandable up to 64GB)
Storage	512GB M.2 22x80 key M slot for PCIe x4 Gen 4 NVMe SSD (expandable up to 2TB); additional 2.5-inch SATA drive slot (up to 2TB)
Operating System	Windows 11
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.2
Ports	1x USB-C 3.2 Gen 2 (DP1.4/100W), 2x USB-A 3.2 Gen 2, 1x 2-in-1 Audio Jack, 2x HDMI 2.1, 1x 1.0 Gbps RJ-45 Ethernet, 2x USB-A 3.2 Gen 1, 2x USB-C (Thunderbolt compatible), 1x SD Card Slot, 1x Kensington Lock Hole
Dimensions	1.7L volume (Specific dimensions: 259.5mm x 165mm)
Weight	Approximately 1.43 lbs
Additional Features	RGB Lighting

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior. For vents, use compressed air to remove dust. Do not use liquid cleaners directly on the device.
- **Ventilation:** Ensure the Mini PC is placed in a well-ventilated area. Avoid blocking the air inlets and outlets to prevent overheating.
- **Software Updates:** Regularly update your operating system and drivers to ensure stability and security.

9. TROUBLESHOOTING

- **No Power:** Check all power connections. Ensure the power adapter is securely plugged into both the Mini PC and the wall outlet.
- **No Display:** Verify that the HDMI or USB-C display cable is securely connected to both the Mini PC and the monitor. Try a different cable or display if possible. Ensure the monitor is set to the correct input source.
- **System Slowdown:** Check for background applications consuming resources. Ensure sufficient free storage space. Consider upgrading RAM or SSD if performance issues persist.
- **Overheating:** Ensure proper ventilation. Clean dust from vents. If the issue persists, contact support.

10. WARRANTY AND SUPPORT

Your Thunderobot Mix Gaming Mini PC comes with a **1-Year Warranty**. Additionally, you are entitled to **Free Lifetime Tech Support**. For any technical assistance or warranty claims, please contact Thunderobot customer service through the contact information provided in your purchase documentation or on the official Thunderobot website.