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› [Maxtang](#) /

› Maxtang MTN-6900HX Mini PC User Manual

## Maxtang MTN-6900HX

# Maxtang MTN-6900HX Mini PC User Manual

Model: MTN-6900HX

## 1. INTRODUCTION

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This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Maxtang MTN-6900HX Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and safety. The Maxtang MTN-6900HX is a compact, high-performance mini PC featuring an AMD Ryzen 9 6900HX processor, designed for various applications including everyday computing, photo editing, video editing, and gaming.

# Gaming PC

## AMD Ryzen™ 9 6900HX

AMD Ryzen™ 9  
**6900HX**

**8C / 16T**

Max. Boost Clock

**4.9 GHZ**

L3 cache

**16 MB**



### CPU Mark



AMD Ryzen™ 9 6900HX

24817

Ryzen 7 6800U

20538

Intel Core i7-1165G7

10220

Image 1.1: Front view of the Maxtang MTN-6900HX Mini PC. This image shows the compact design of the device.

## 2. SAFETY INFORMATION

- Always disconnect the power adapter before cleaning or performing any maintenance.

- Do not expose the device to water, moisture, or extreme temperatures.
- Ensure proper ventilation to prevent overheating. Do not block the air vents.
- Use only the provided power adapter or a compatible replacement.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1x Maxtang MTN-6900HX Mini PC (No RAM, No SSD, No OS)
- 1x HDMI Cable
- 1x Power Adapter
- 1x Power Cord
- 1x VESA Mount
- 4x Mounting Screws
- 1x Product Manual (this document)

### 4. PRODUCT OVERVIEW

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The Maxtang MTN-6900HX Mini PC features a comprehensive set of ports and internal expansion options. Familiarize yourself with the device's layout before proceeding with installation.

#### 4.1 External Ports

# Gaming PC with improved TSMC 6nm FinFET

## Support Triple Screen Display



HDMI [4K@60Hz]



DP [8K@60Hz]



USB C4[4K@60Hz]

Image 4.1: Detailed diagram of the Maxtang MTN-6900HX Mini PC's front and rear ports.

### Front Panel:

- **USB 3.2:** Two USB 3.2 Gen2 ports (10Gbps) for high-speed data transfer.
- **USB-C (USB 3.2 10Gb):** One USB-C port for data transfer.

- **Audio:** 3.5mm audio jack for headphones or speakers.
- **RESET:** Reset button.
- **Power Button:** To power on/off the device.

#### **Rear Panel:**

- **DC-in (Power input):** Connect the power adapter here.
- **HDMI:** One HDMI port for video output (up to 4K@60Hz).
- **Air vents:** For heat dissipation.
- **DP:** One DisplayPort for video output (up to 8K@60Hz).
- **USB 4.0:** Two USB4 ports (40Gbps, 100W PD, 8K video output).
- **USB 2.0:** One USB 2.0 port.
- **LAN RJ45 2.5G:** One 2.5 Gigabit Ethernet port for wired network connection.
- **Kensington lock:** Security slot.

## **4.2 Internal Components**

# Smoothly process multiple tasks simultaneously

Dual DDR5 & 2 NVMe SSD expansion support

SSD PCIE GEN4  
「 up to 2TB 」

Dual channel SO-DIMM DDR5  
「 up to 64GB 」



Image 4.2: Internal view of the Mini PC, highlighting the M.2 2280 NVMe SSD slots and DDR5 SO-DIMM slots.

The Mini PC supports:

- **M.2 2280 NVMe SSD:** Two PCIe Gen4 2280 slots for NVMe SSDs, supporting up to 4TB each (total 8TB).
- **DDR5 SO-DIMM:** Two dual-channel DDR5 SO-DIMM slots, supporting up to 64GB RAM.

- **WiFi/Bluetooth Module:** One M.2 slot for a WiFi and Bluetooth module (pre-installed or user-installable depending on configuration).

## 5. HARDWARE INSTALLATION (RAM & SSD)

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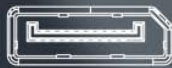
This Mini PC is shipped without RAM, SSD, or an operating system. Follow these steps to install the necessary components.

### 5.1 Installing RAM (DDR5 SO-DIMM)

# Gaming PC with improved TSMC 6nm FinFET Support Triple Screen Display



HDMI [4K@60Hz]



DP [8K@60Hz]



USB C4[4K@60Hz]

Image 5.1: Illustration of installing DDR5 SO-DIMM modules into the memory slots.

1. **Power Off:** Ensure the Mini PC is powered off and disconnected from the power source.
2. **Open Case:** Carefully open the Mini PC case. Refer to the specific model's instructions for case removal.
3. **Locate Slots:** Identify the two DDR5 SO-DIMM slots on the motherboard.

4. **Insert RAM:** Align the notch on the DDR5 SO-DIMM module with the key in the slot. Insert the module at a 45-degree angle and push down firmly until the side clips snap into place, securing the module.

5. **Repeat:** If installing two modules for dual-channel operation, repeat for the second slot.

## 5.2 Installing NVMe SSD (M.2 2280)

# Smoothly process multiple tasks simultaneously

Dual DDR5 & 2 NVMe SSD expansion support

SSD PCIE GEN4  
「 up to 2TB 」

Dual channel SO-DIMM DDR5  
「 up to 64GB 」

PCIE GEN4\*4

DDR5

PCIE GEN4\*4

DDR5



*Image 5.2: View of the M.2 2280 NVMe SSD slots, indicating where to install storage.*

1. **Locate Slots:** Identify the M.2 2280 NVMe SSD slots on the motherboard.
2. **Insert SSD:** Gently slide the M.2 SSD into the slot, ensuring the gold contacts are fully engaged.
3. **Secure SSD:** Once inserted, push down the end of the SSD and secure it with the provided screw.
4. **Close Case:** After installing all components, carefully close the Mini PC case.

## 6. INITIAL SETUP AND OPERATING INSTRUCTIONS

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### 6.1 Connecting Peripherals

1. **Display:** Connect your monitor(s) to the HDMI, DisplayPort, or USB4 ports using the appropriate cables.
2. **Keyboard/Mouse:** Connect your USB keyboard and mouse to the available USB ports.
3. **Network:** For a wired connection, connect an Ethernet cable to the 2.5GbE LAN port. For wireless, ensure your WiFi module is installed.
4. **Power:** Connect the power adapter to the DC-in port on the Mini PC, then plug the power cord into an electrical outlet.

### 6.2 Powering On and OS Installation

1. **Power On:** Press the power button on the front panel. The power indicator should illuminate.
2. **BIOS/UEFI:** Upon first boot, you may need to enter the BIOS/UEFI settings (usually by pressing **Del** or **F2** during startup) to configure boot options or verify hardware detection.
3. **Operating System Installation:** Since the device comes without an OS, you will need to install one. Prepare a bootable USB drive with your preferred operating system (e.g., Windows 11 Pro 64-bit or Linux 64-bit). Insert the USB drive and follow the on-screen instructions to install the OS onto your NVMe SSD.

### 6.3 Display Configuration

The Mini PC supports multiple displays, including triple screen output via HDMI, DisplayPort, and USB4.

# LAN [2.5GbE] + WIFI 6 + BT 5.2

## Significantly improves game stability and fluency

A stable and fast network environment makes it easy to achieve high-speed data transfer and fluent gameplay.



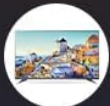
Image 6.1: Example setup showing the Mini PC connected to three external displays.

- Connect up to three monitors using the HDMI (4K@60Hz), DisplayPort (8K@60Hz), and USB4 (4K@60Hz) ports.
- After OS installation, you can configure display settings (resolution, orientation, extended/duplicate desktop) within your operating system's display settings.

# RICH MULTI-FUNCTIONAL INTERFACE



Switch



TV



Speaker



Monitor



Headphone



Printer



Projector



Screen printing inks are halogen-free, safe and environmentally friendly.

Image 6.2: Visual representation of the Mini PC's network capabilities, including 2.5GbE LAN, WiFi 6, and Bluetooth 5.2.

- **Wired LAN:** Connect an Ethernet cable to the 2.5GbE RJ45 port for a stable and high-speed wired network connection.

- **Wi-Fi:** If a Wi-Fi module is installed, connect to your wireless network through the operating system's network settings. The device supports Wi-Fi 6.
- **Bluetooth:** If a Bluetooth module is installed, pair Bluetooth devices (e.g., headphones, keyboards) through the operating system's Bluetooth settings. The device supports Bluetooth 5.2.

## 7. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the exterior of the Mini PC. For dust in vents, use compressed air. Do not use liquid cleaners directly on the device.
- **Software Updates:** Regularly update your operating system, drivers, and applications to ensure optimal performance and security.
- **Ventilation:** Ensure the Mini PC is placed in a well-ventilated area and that its air vents are not obstructed to prevent overheating.
- **Data Backup:** Periodically back up important data to an external storage device or cloud service.

## 8. TROUBLESHOOTING

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

- **No Power:**
  - Check if the power adapter is securely connected to both the Mini PC and the electrical outlet.
  - Ensure the power outlet is functional.
  - Try a different power outlet.
- **No Display:**
  - Verify that the monitor is powered on and the correct input source is selected.
  - Ensure the video cable (HDMI, DP, USB4) is securely connected to both the Mini PC and the monitor.
  - Try a different video cable or monitor if available.
- **Operating System Not Booting:**
  - Confirm that RAM and SSD are correctly installed as per Section 5.
  - Check BIOS/UEFI settings to ensure the boot order is correct and the SSD is detected.
  - If installing a new OS, ensure the bootable USB drive is properly created and selected as the boot device.
- **No Network Connection:**
  - For wired connections, check the Ethernet cable and router/modem status.
  - For Wi-Fi, ensure the Wi-Fi module is installed and drivers are updated. Check your Wi-Fi network settings in the OS.
- **Overheating:**
  - Ensure the Mini PC's vents are clear and not obstructed.
  - Place the device in a location with good airflow.
  - Clean dust from the vents regularly.

## 9. SPECIFICATIONS

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Detailed technical specifications for the Maxtang MTN-6900HX Mini PC:

Feature	Specification
Model Name	MTN-6900HX
Processor	AMD Ryzen 9 6900HX (8 Cores/16 Threads, up to 4.9GHz)
Graphics	AMD Radeon Graphics (Radeon 680M)
Memory (RAM)	Dual Channel DDR5 SO-DIMM, Max 64GB (User-installed)
Storage	2x M.2 2280 NVMe PCIe Gen4 SSD slots, Max 4TB each (User-installed)
Operating System	No OS pre-installed (Supports Windows 10/11 64-bit, Linux 64-bit)
Video Output	1x HDMI (4K@60Hz), 1x DisplayPort (8K@60Hz), 2x USB4 (4K@60Hz)
USB Ports	2x USB4 (40Gbps), 2x USB 3.2 Gen2 (10Gbps), 1x USB 2.0
Network	1x 2.5GbE RJ45 LAN, Wi-Fi 6, Bluetooth 5.2
Audio	1x 3.5mm Audio Jack
Power Input	19V/20V DC-in
Dimensions	127 mm x 135 mm x 55 mm
Additional Features	Kensington Lock slot, VESA Mount support

## 9.1 Processor Details



**AMD Ryzen™ 9 6900HX**

Zen 3+ 8C/16T  
 Up to 4.9 GHz  
 L3 Cache 16MB  
 TDP 45W

**M.2 2280 NVME SSD**  
 PCIe 4.0x2

**RJ45 LAN(2.5GbE) x1**

**Dual Channel DDR5**  
 [ Max : 64GB ]

**USB4**  
 40Gbps

**OS**  
 Supports Windows 10/11 64bit,  
 Linux 64bit

**Triple Screen Display**

HDMI	[4K@60Hz]
USB C4	[4K@60Hz]
DP	[8K@60Hz]

Image 9.2: Specifications for the integrated AMD Radeon 680M graphics, including shader count and GPU memory.

## 10. WARRANTY AND SUPPORT

**Warranty:** This product comes with a 12-month product warranty from the date of order. Please retain your proof of

purchase for warranty claims.

**Customer Service:** For technical support or warranty inquiries, please contact Maxtang customer service. Refer to your purchase platform or the Maxtang official website for contact details.

**Manufacturer Contact Information:** 6/F, Bldg 3, Honghui Industrial Park, Liuxian 2nd Road, Bao'an Dist, Shenzhen, China 518101