KOOSMILE KT-M9

KOOSMILE Mini PC KT-M9 User Manual

Model: KT-M9

1. INTRODUCTION

Thank you for choosing the KOOSMILE Mini PC KT-M9. This compact yet powerful desktop computer is designed for a wide range of applications, from demanding professional tasks to immersive home entertainment. Equipped with an Intel Core i9-12900HK processor, ample memory, and high-speed storage, it delivers exceptional performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Mini PC.

Figure 1.1: The KOOSMILE Mini PC KT-M9, showcasing its compact design and smart display.

Figure 1.2: Overview of the Mini PC's core features, including its powerful processor, memory, storage, and connectivity options.

2. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, please contact customer support.

- 1 x KOOSMILE Mini PC KT-M9
- 1 x HDMI Cable
- 1 x Power Adapter
- 1 x DisplayPort (DP) Cable
- 1 x USB Hub
- 1 x Metal Sheet Bracket (for mounting)
- 1 x User Manual (this document)

3. PRODUCT OVERVIEW

The KOOSMILE Mini PC KT-M9 is designed for efficiency and versatility. Its compact chassis houses high-performance components and a variety of ports for extensive connectivity.

3.1. Physical Dimensions

Figure 3.1: The compact size of the Mini PC, approximately 5.2 inches in length, 4.4 inches in width, and 2 inches in height, shown next to a smartphone for scale.

3.2. Ports and Connectors

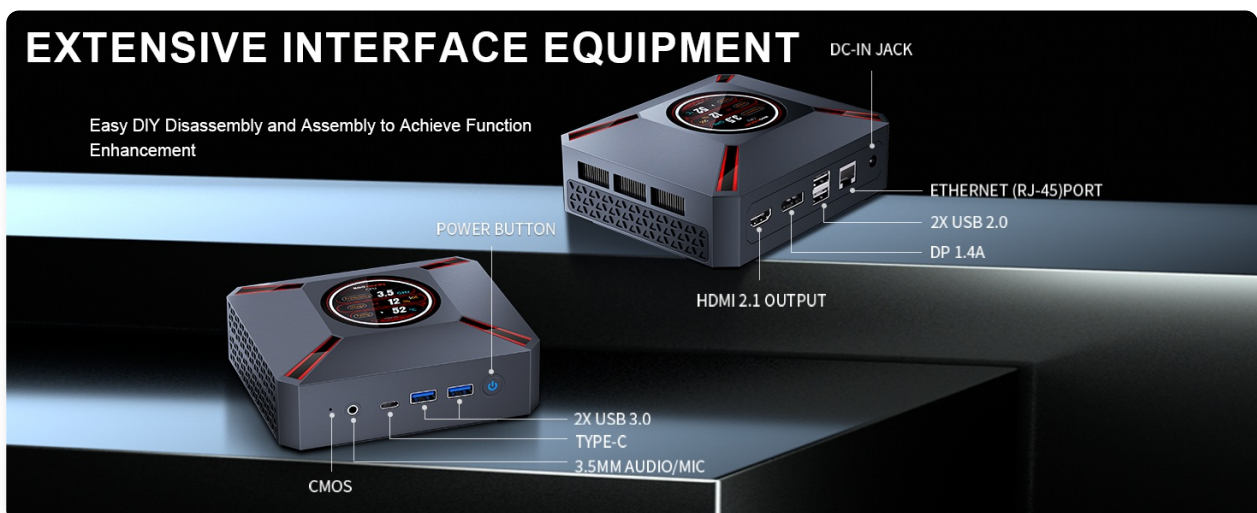Familiarize yourself with the various input/output ports on your Mini PC:

Figure 3.2: Detailed diagram of the Mini PC's front and rear ports, including power, video outputs, USB, and audio

connections.

- **Front Panel:**

  - 3.5mm Audio/Mic Jack
  - USB Type-C Port (Full-feature)
  - 2 x USB 3.0 Ports
  - Power Button
  - CMOS Reset Pinhole

- **Rear Panel:**

  - DC-IN Jack (Power Input)
  - Ethernet (RJ-45) Port
  - 2 x USB 2.0 Ports
  - DisplayPort (DP 1.4a)
  - HDMI 2.1 Output

3.3. Smart Display Monitoring

The Mini PC features a built-in smart display on the lid that provides real-time system information. This display allows you to quickly monitor key performance metrics without needing additional software.

Figure 3.3: The smart display interface, showing real-time data such as CPU frequency, usage, temperature, network upload/download speeds, and disk usage.

Information displayed includes:

- CPU Frequency
- CPU Usage Percentage
- CPU Temperature (°C)
- Network Upload/Download Speeds
- Memory Usage

4. SETUP GUIDE

Follow these steps to set up your KOOSMILE Mini PC for the first time.

4.1. Initial Hardware Connection

1. **Connect Peripherals:** Plug in your USB keyboard and mouse to the available USB ports (USB 3.0 ports are recommended for faster response).
2. **Connect Display(s):** Connect your monitor(s) to the Mini PC using the provided HDMI cable,

DisplayPort cable, or a USB-C to display cable. **Important: Ensure the display device is connected before turning on the computer. Use the included HDMI cable and avoid other adapter cables for the HDMI interface to prevent compatibility issues.**

3. **Connect Power:** Insert the power adapter cable into the DC-IN jack on the rear panel of the Mini PC, then plug the power adapter into a wall outlet.

4. **Network Connection (Optional):** For a wired connection, connect an Ethernet cable from your router or modem to the RJ-45 port on the Mini PC. For wireless connection, Wi-Fi 6 is enabled by default.

4.2. First Boot and Windows 11 Pro Setup

1. **Power On:** Press the Power Button on the front panel of the Mini PC. The smart display will illuminate, and the system will begin to boot.

2. **Windows 11 Pro Setup:** The Mini PC comes pre-installed with Windows 11 Pro. On the first boot, you will be guided through the Windows Out-Of-Box Experience (OOBE) to configure language, region, network, and user accounts. Follow the on-screen prompts to complete the setup.

3. **Driver Installation:** All necessary drivers are pre-installed. **Please avoid installing third-party drivers unless specifically instructed by KOOSMILE support to prevent compatibility issues.**

4.3. Triple Display Configuration

The Mini PC supports up to three displays simultaneously via HDMI 2.1, DisplayPort 1.4a, and the full-feature USB Type-C port. This allows for an extended workspace or multi-monitor setups for productivity or entertainment.

Figure 4.1: Example of a triple-monitor setup connected to the Mini PC, demonstrating its multi-display capability.

To configure multiple displays in Windows 11:

1. Ensure all monitors are physically connected to the Mini PC and powered on.
2. Right-click on an empty area of your desktop and select "Display settings."
3. In the Display settings window, Windows should detect all connected displays. You can arrange them by dragging and dropping the display icons.
4. Under "Multiple displays," choose how you want to use your displays (e.g., "Extend these displays," "Duplicate these displays").
5. Adjust resolution, orientation, and scaling for each display as needed.

5. OPERATING INSTRUCTIONS

This section covers basic operation and utilization of your Mini PC.

5.1. Power On/Off and Restart

- **Power On:** Press the Power Button on the front of the Mini PC.
- **Shut Down:** Click the Start button in Windows, then select Power > Shut down.

- **Restart:** Click the Start button in Windows, then select Power > Restart.
- **Sleep:** Click the Start button in Windows, then select Power > Sleep.

5.2. Using the Smart Display

The smart display on the lid provides real-time system metrics. It operates automatically and requires no user input. Monitor these values to understand your system's current load and health.

5.3. Network Connectivity

- **Wi-Fi 6:** To connect to a wireless network, click the Wi-Fi icon in the Windows taskbar, select your desired network, enter the password, and click Connect.
- **Ethernet:** If an Ethernet cable is connected, the Mini PC will automatically establish a wired network connection.

5.4. Storage Management

Your Mini PC comes with a 1TB NVMe SSD. You can manage disk partitions through Windows Disk Management. If you wish to adjust the hard disk partition structure, please refer to online resources or contact KOOSMILE customer support for guidance.

6. MAINTENANCE

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

6.1. Cleaning

- **Exterior:** Use a soft, dry, lint-free cloth to wipe the exterior of the Mini PC. For stubborn marks, slightly dampen the cloth with water. Avoid harsh chemicals or abrasive cleaners.
- **Vents:** Periodically use compressed air to clear dust from the ventilation grilles to ensure proper airflow.

6.2. Cooling System

The Mini PC features an advanced copper cooling fan and multiple vents for efficient heat dissipation. This system is designed to keep your PC running smoothly even under intense tasks.

SILENT COOLING

Boosts Performance and Protects Your Machine!

➤ *WIND SPEED*

Powerful fan speeds, keep your machine cool

(Note: The high-quality metal housing dissipates heat particularly well – slight heating is normal and provides additional safety compared to plastic housings.)

Figure 6.1: Internal view highlighting the efficient cooling system with its copper fan, designed to maintain optimal operating temperatures.

Ensure the Mini PC is placed in a well-ventilated area and that the vents are not obstructed. A slight heating of the metal housing during operation is normal and indicates effective heat dissipation.

6.3. Software Updates

Regularly check for and install Windows updates to ensure system stability, security, and performance. Go to **Settings > Windows Update** to check for updates.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Mini PC.

7.1. No Display Output

- Ensure the monitor is powered on and correctly connected to the Mini PC's HDMI, DisplayPort, or USB-C video output.
- Verify that the correct input source is selected on your monitor.
- **Important:** Always connect the display device before powering on the Mini PC.
- Try using a different video cable or monitor to rule out faulty peripherals.

7.2. System Not Powering On

- Check that the power adapter is securely connected to both the Mini PC and a working power outlet.
- Ensure the power outlet is functional by testing it with another device.

7.3. Buzzing Sound

- A slight buzzing sound might occur. Try restarting the computer. If the sound persists or is unusually loud, contact customer support.

7.4. Connectivity Issues (Wi-Fi/Bluetooth)

- **Wi-Fi:** Ensure Wi-Fi is enabled in Windows settings. Restart your router/modem. Check for interference from other devices.
- **Bluetooth:** Ensure Bluetooth is enabled in Windows settings. Try re-pairing your Bluetooth device.

7.5. General Performance Issues

- Close unnecessary applications running in the background.
- Ensure Windows and drivers are up to date.
- Check the smart display for high CPU usage or temperature, which might indicate a heavy workload or cooling issue.

8. SPECIFICATIONS

Detailed technical specifications for the KOOSMILE Mini PC KT-M9.

Figure 8.1: Key specifications of the Intel Core i9-12900HK processor, highlighting its core count, threads, cache, and maximum turbo frequency.

Figure 8.2: Information on the high-speed DDR4 memory and PCIe 3.0 SSD, crucial for fast data processing and quick loading times.

Figure 8.3: Comparison of wireless and wired connectivity speeds, highlighting the advantages of Wi-Fi 6 and USB 3.0.

Component	Specification
Processor	Intel Core i9-12900HK (14 Cores, 20 Threads, up to 5.0GHz, 24MB Cache)

Component	Specification
Operating System	Windows 11 Pro
RAM	32GB DDR4 3200MHz
Storage	1TB PCIe 3.0 NVMe SSD
Graphics	Intel Iris Xe Graphics (Integrated)
Video Output	HDMI 2.1 (4K @ 60Hz), DisplayPort 1.4a (8K @ 60Hz), USB Type-C (Full-feature)
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2
Wired Connectivity	1000M RJ45 Ethernet
USB Ports	2 x USB 3.0, 2 x USB 2.0, 1 x USB Type-C (Full-feature)
Audio	3.5mm Audio/Mic Jack
Cooling System	Advanced Copper Cooling Fan with Multiple Vents
Smart Display	Real-time CPU Frequency, Usage, Temperature, Network, Memory
Dimensions	Approx. 5.2 x 4.4 x 2 inches (13.2 x 11.2 x 5.1 cm)
Weight	Approx. 2.57 pounds (1.17 kg)

9. WARRANTY AND SUPPORT

KOOSMILE is committed to providing high-quality products and excellent customer service.

9.1. Warranty Information

Your KOOSMILE Mini PC KT-M9 comes with a **1-year free warranty** from the date of purchase. This warranty covers manufacturing defects and hardware malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9.2. Technical Support

For any technical assistance, troubleshooting, or warranty claims, please contact our customer service team via email. Provide your product model (KT-M9), purchase date, and a detailed description of the issue to receive prompt support.
Email: [Insert Customer Support Email Here - e.g., support@koosmile.com]
Our team is dedicated to helping you resolve any issues and ensure your satisfaction with your KOOSMILE Mini PC.