

ACEMAGICIAN M1

ACEMAGICIAN M1 Mini Gaming PC User Manual

Model: M1 - Intel Core i9-13900HK

1. INTRODUCTION

The ACEMAGICIAN M1 Mini Gaming PC is a high-performance, compact desktop computer designed for demanding tasks such as gaming, content creation, and professional workloads. Powered by an Intel Core i9-13900HK processor, 32GB DDR4 RAM, and a 1TB PCIe 4.0 NVMe SSD, it offers robust performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.



Figure 1: ACEMAGICIAN M1 Mini Gaming PC - Front and Rear View

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x M1 Mini PC
- 1 x Power Adapter
- 1 x HDMI Cable
- 1 x VESA Mount with Screws
- 1 x User Manual



Figure 2: Diagram of included accessories

3. SETUP GUIDE

1. **Connect Power:** Plug the power adapter into the DC IN port on the rear of the Mini PC, then connect it to a power outlet.
2. **Connect Display:** Connect your monitor(s) to the Mini PC using the provided HDMI cable or a DisplayPort cable (not included). The Mini PC supports triple display output via HDMI, DisplayPort, and USB4 (DisplayPort Alt-Mode).
3. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB ports.
4. **Network Connection:** For a wired connection, plug an Ethernet cable into the 2.5GbE LAN port. For wireless, the Mini PC supports WiFi 6E and Bluetooth 5.2, which can be configured during the initial Windows setup.
5. **Power On:** Press the power button located on the front of the Mini PC. The system will boot into the pre-installed Windows 11 Pro operating system.
6. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows 11 Pro setup, including language selection, network configuration, and user account creation.

Video 1: Quick overview of ACEMAGICIAN M1 Mini PC setup and features.

Video 2: ACEMAGICIAN M1 Mini PC in action, demonstrating its compact size and connectivity.

4. OPERATING INSTRUCTIONS

The ACEMAGICIAN M1 Mini PC runs on Windows 11 Pro, offering a familiar and intuitive user experience. Its powerful hardware configuration ensures smooth performance across various applications.

4.1. General Usage

- **Multitasking:** The Intel Core i9-13900HK processor with 14 cores and 20 threads, combined with 32GB DDR4 RAM, allows for seamless multitasking. You can run multiple applications simultaneously without performance degradation.
- **4K Video Playback & Editing:** The integrated Intel Iris Xe Graphics supports 4K video output at 60Hz, making it suitable for high-resolution media consumption and video editing tasks.

- **Gaming:** The Mini PC is capable of running many modern games at medium settings, providing a smooth gaming experience for titles like Fortnite, League of Legends, and Valorant.

4.2. Triple Display Output

Enhance your productivity by connecting up to three displays simultaneously. Utilize the HDMI 2.0, DisplayPort 1.4, and USB4 (DisplayPort Alt-Mode) ports to create an expansive workspace.

Blazing-Fast Transmission

Unleash Speed for Ultimate Efficiency


Wi-Fi 6E


Bluetooth 5.2


2.5GbE RJ45 Ethernet Port


USB3.2 Type-A
(10Gbps&5Gbps)


USB4.0 Type-C
(Up to 40Gbps data transfer)



Wi-Fi 6E

2400Mbps

WiFi 5

867 Mbps

Figure 3: Triple display setup for enhanced productivity

5. CONNECTIVITY

The M1 Mini PC offers a wide range of connectivity options for all your peripherals and networking needs:

5.1. Front Ports

- 1 x USB4 Type-C (40Gbps data transfer, DisplayPort Alt-Mode, PD 15W Output)
- 2 x USB 3.2 Gen2 Type-A
- 1 x 3.5mm Audio Jack (Headphone + Microphone support)
- 1 x Power Button

5.2. Rear Ports

- 1 x HDMI 2.0 (4K@60Hz)
- 1 x DisplayPort 1.4 (8K@30Hz / 4K@120Hz)
- 1 x 2.5GbE RJ45 Ethernet Port
- 4 x USB 3.2 Gen1 Type-A
- 1 x DC IN (Power Input)

5.3. Wireless Connectivity

- **Wi-Fi 6E:** For high-speed, stable wireless internet connection.
- **Bluetooth 5.2:** For connecting wireless peripherals like keyboards, mice, and headphones.

Intel Core i9-13900HK

14/20

Cores
Threads

24 MB

Smart Cache

2.6GHz

Base
Frequency

5.4 GHz

Max Turbo
Frequency

65W

TDP UP



Figure 4: Detailed view of front and rear ports

6. STORAGE AND MEMORY

The M1 Mini PC is equipped with ample storage and high-speed memory to handle demanding applications:

- **RAM:** 32GB (2x16GB) DDR4 RAM at 3200MHz, expandable up to 64GB.
- **SSD:** 1TB PCIe 4.0 NVMe SSD, with 2 M.2 2280 slots for expansion up to 4TB (supports both NVMe and SATA SSDs).

ACEMAGIC M1 Mini PC

The Top Pick for Pro



The advertisement features a central image of the ACEMAGIC M1 Mini PC, a small, dark, cube-shaped device, sitting on a reflective surface. In the background, a large monitor displays a Windows 11 desktop with various app icons, and a keyboard is visible in the foreground. The overall aesthetic is futuristic with blue and white lighting effects.

Intel Core i9-13900HK

- 14/20 Cores Threads
- 24 MB Smart Cache
- 5.4 GHz Max Turbo Frequency
- 65W TDP UP

Wi-Fi 6E **BT 5.2**

Pre-installed Windows 11 Pro

1TB M.2 PCIe3.0x4 SSD
2 * M.2 2280 Slots Up to 4TB

32GB DDR4 3200MHz
up to 2*32GB=64GB

2.5GbE LAN

65W TDP UP

4K Triple Display

Figure 5: Internal view showing RAM and M.2 SSD slots

7. COOLING SYSTEM

The ACEMAGICIAN M1 Mini PC features an advanced dual-fan cooling system with copper pipes and dual air duct design. This ensures quiet and efficient operation, preventing overheating even during intensive workloads, gaming, or content creation.

Figure 6: Diagram of the quiet and efficient dual-fan cooling system

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	M1
Processor	Intel Core i9-13900HK (14 Cores/20 Threads, up to 5.4GHz)
Graphics	Intel Iris Xe Graphics eligible (Integrated)
RAM	32GB DDR4 3200MHz (Expandable to 64GB)
Storage	1TB PCIe 4.0 NVMe SSD (Expandable to 4TB)
Operating System	Windows 11 Pro
Video Output	HDMI 2.0, DisplayPort 1.4, USB4 (DP Alt-Mode) - Triple Display Support
USB Ports	1 x USB4 Type-C, 2 x USB 3.2 Gen2 Type-A (Front), 4 x USB 3.2 Gen1 Type-A (Rear)
Network	2.5GbE LAN, Wi-Fi 6E, Bluetooth 5.2
Audio	3.5mm Audio Jack
Dimensions	6.42 x 6.38 x 4.49 inches
Weight	2.97 pounds

9. TROUBLESHOOTING

If you encounter issues with your ACEMAGICIAN M1 Mini PC, please refer to the following common solutions:

- **No Display:** Ensure all display cables (HDMI, DisplayPort, USB4) are securely connected to both the Mini PC and the monitor. Verify the monitor is powered on and set to the correct input source.
- **No Power:** Check that the power adapter is correctly plugged into the Mini PC and a working power outlet. Try a different outlet if necessary.
- **Peripheral Not Detected:** Ensure USB devices are properly connected. Try a different USB port. For wireless devices, check Bluetooth settings and ensure drivers are up to date.
- **Slow Performance:** Close unnecessary applications. Check Task Manager for high CPU/RAM usage. Ensure Windows and drivers are updated.
- **Network Issues:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure the Mini PC is within range of your router and the Wi-Fi adapter is enabled. Restarting the router may also help.

10. MAINTENANCE

To ensure the longevity and optimal performance of your Mini PC, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to gently

clear dust from ventilation holes to maintain proper airflow.

- **Ensure Ventilation:** Do not block the ventilation openings. Place the Mini PC in a well-ventilated area to prevent overheating.
- **Software Updates:** Keep your Windows operating system and device drivers updated to ensure stability, security, and optimal performance.
- **Safe Shutdown:** Always shut down the Mini PC properly through the Windows operating system to prevent data corruption.

11. WARRANTY AND SUPPORT

The ACEMAGICIAN M1 Mini PC comes with a **3-year warranty**, providing extended protection for your investment. For any questions, technical assistance, or warranty claims, please contact our support team:

- **Support Email:** service@acemagicians.com
- **Telephone (US):** +1 800 908 1980
- **Amazon Support:** Log in to your Amazon buyer account, find your order, and click "Get Help."



Figure 7: ACEMAGICIAN Customer Support Details