

ACEMAGIC K1

ACEMAGIC K1 Mini PC User Manual

Model: K1 | Brand: ACEMAGIC

1. INTRODUCTION

Thank you for choosing the ACEMAGIC K1 Mini PC. This compact and powerful desktop is designed for a wide range of tasks, from daily office work and web browsing to 4K media streaming and light gaming. Powered by an AMD Ryzen 3 4300U processor, 16GB DDR4 RAM, and a 256GB M.2 SSD, it offers responsive performance in a space-saving design. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.

Store More, Load Faster

Up to 64GB (32GB+32GB)
Dual SO-DIMM DDR4 Slots Support
Memory Expansion

Up to 4TB (2TB+2TB)
Standard M.2 2280 SATA&NVMe SSD



Figure 1: ACEMAGIC K1 Mini PC in a typical desktop setup.

2. PRODUCT OVERVIEW

The ACEMAGIC K1 Mini PC combines high performance with a compact form factor. It features a robust AMD Ryzen 3 4300U processor, ample memory, and fast storage, making it suitable for various computing needs. Its design prioritizes efficient cooling and versatile connectivity.

ACEMAGIC Kron Mini K1

Powered by AMD RYZEN 3 4300U



Figure 2: Key features and components of the ACEMAGIC K1 Mini PC.

2.1. Processor and Performance

The K1 Mini PC is equipped with a 28W full-powered AMD Ryzen 3 4300U processor (4 Cores/4 Threads, 7nm Zen2, 4MB L3 Cache, 2.7GHz base / 3.7GHz boost). This processor, paired with 16GB DDR4 RAM, ensures lag-free performance for multitasking, handling multiple browser tabs, video conferencing, and light gaming. It offers a significant performance advantage over N150/N97 chips.

Your browser does not support the video tag.

Video 1: An overview of the ACEMAGIC Mini PC, showcasing its design and potential uses.

2.2. Ports and Interfaces

The ACEMAGIC K1 offers a comprehensive set of ports for versatile connectivity:

- **Front Ports:** 1x USB 3.2 Gen2 Type-C, 2x USB 3.2 Gen2 Type-A, 1x 3.5mm Audio Jack, 1x Power Button.
- **Rear Ports:** 1x DC IN, 1x HDMI 2.0, 1x DP 1.4, 1x RJ45 Gigabit Ethernet Port, 4x USB 3.2 Gen1.

Tested for Tough Environments

Backed By 8 Stringent Laboratory Tests, It Delivers Reliable Performance In Demanding Conditions, Ensuring Everyday Reliability For Your Daily Use.



Humidity



Low temperature



High temperature



Severe temperature



Vibration



Mechanical shock



Explosion-proof



Sea turbulence



Figure 3: Detailed view of the ACEMAGIC K1 Mini PC's front and rear ports.

3. SETUP GUIDE

Follow these steps for initial setup of your ACEMAGIC K1 Mini PC:

1. **Connect Peripherals:** Connect your monitor(s) using the HDMI, DisplayPort, or Type-C ports. Connect your

keyboard and mouse to the available USB ports.

2. **Power Connection:** Plug the power adapter into the DC IN port on the rear of the Mini PC, then connect it to a power outlet.
3. **Network Connection:** For a stable internet connection, connect an Ethernet cable to the RJ45 Gigabit Ethernet Port. Alternatively, the device supports Wi-Fi 5 for wireless connectivity.
4. **First Boot:** Press the power button on the front of the device. The system will boot into Windows 11 Pro. Follow the on-screen instructions to complete the initial Windows setup.
5. **Avoid LAN Initially (Optional):** For faster initial setup, it is recommended to avoid connecting to LAN immediately. Connecting might trigger long updates, delaying desktop access.

4. OPERATING INSTRUCTIONS

4.1. Windows 11 Pro

Your ACEMAGIC K1 Mini PC comes preloaded with genuine Windows 11 Pro, ready for immediate use. No additional setup is needed for the operating system. It supports Office applications, Lightroom, and various other software, making it suitable for both productivity and creative tasks.

4.2. Triple Display Support

The Mini PC supports up to three simultaneous 4K@60Hz monitors via its Type-C (DP1.4), DP1.4, and HDMI 2.0 ports. This allows for an extended workspace, ideal for multitasking, side-by-side work, or multi-screen streaming.

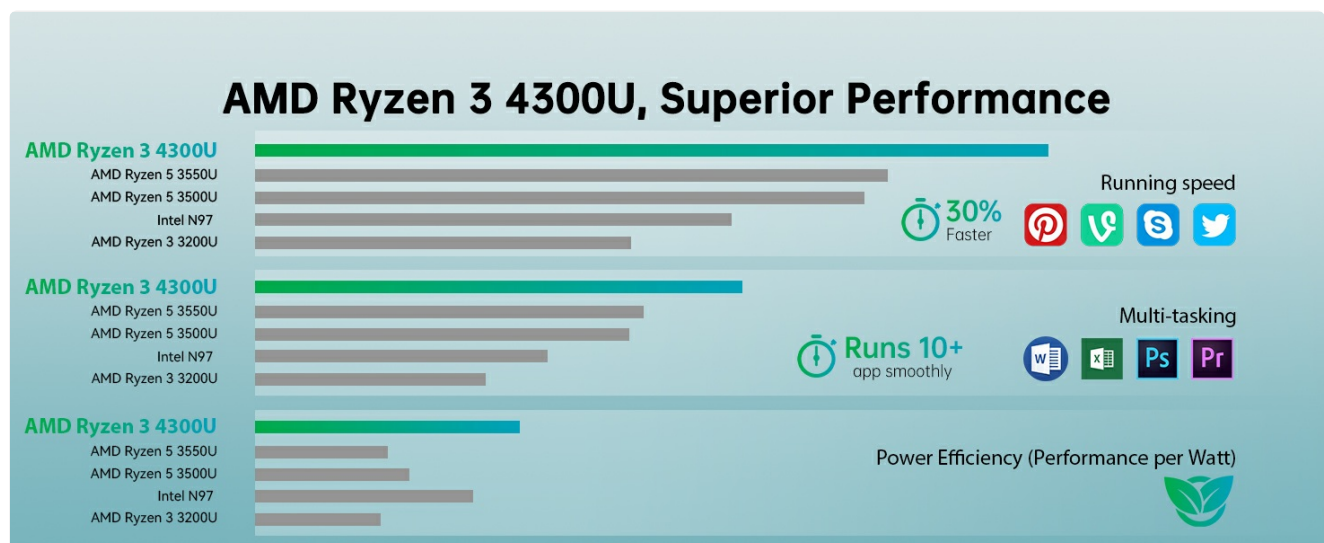


Figure 4: Triple 4K display setup with the ACEMAGIC K1 Mini PC.

4.3. Storage Expansion

The device includes a 256GB high-speed NVMe SSD for fast boot and load times. For additional storage, an extra M.2 2280 slot is available, supporting up to 4TB of total storage. This allows you to expand storage as needed without replacing the entire unit.

AMD Ryzen 3 4300U Processor

Benchmark Results Confirm Its Performance Advantage Over The Intel Processor N97

4/4 Cores/Threads **3.70 GHz** Turbo Boost Frequency **2.7GHz** Base Frequency **4MB** L3 Cache

PassMark

Ryzen 3 4300U	2,293
Ryzen 5 3550H	2,014
Ryzen 5 3500U	1,920
Intel N97	1,900
Ryzen 3 3200U	1,776

28%
Overall
Performance Boost

Figure 5: Storage and memory expansion options.

5. MAINTENANCE

To ensure the longevity and optimal performance of your ACEMAGIC K1 Mini PC, consider the following maintenance tips:

- **Keep Clean:** Regularly clean the exterior of the device with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain efficient cooling.
- **Software Updates:** Keep your Windows 11 Pro operating system and drivers updated. Regular updates improve security, performance, and compatibility.
- **Proper Shutdown:** Always shut down the system properly through the operating system. Avoid forced shutdowns unless absolutely necessary.
- **Environmental Conditions:** Operate the Mini PC in a well-ventilated area, away from direct sunlight, excessive heat, and moisture.

5.1. Cooling System

The K1 Mini PC features an upgraded cooling system, including high-conductivity aluminum, an 80mm silent fan, and dual air outlets. This design keeps the 28W Ryzen 3 4300U running cool and quiet, preventing thermal throttling during extended use and ensuring stable performance.



Figure 6: Intelligent Heat Dissipation Design.

6. TROUBLESHOOTING

If you encounter issues with your ACEMAGIC K1 Mini PC, try the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Check if the power button illuminates when pressed.
- **No Display:** Verify that your monitor cables (HDMI, DP, Type-C) are securely connected to both the Mini PC and the monitor. Try connecting to a different monitor or using a different cable to rule out external issues.
- **Slow Performance:** Close unnecessary applications running in the background. Check for available Windows updates and install them. Ensure the Mini PC has adequate ventilation.
- **Network Issues:** If using a wired connection, check the Ethernet cable and router. If using Wi-Fi, ensure the Wi-Fi adapter is enabled and you are connected to the correct network. Restart your router and the Mini PC.
- **Peripheral Not Detected:** Ensure USB devices are properly connected. Try connecting them to a different USB port. Update USB drivers if necessary.

7. SPECIFICATIONS

Below are the detailed specifications for the ACEMAGIC K1 Mini PC:

Feature	Specification
Processor	AMD Ryzen 3 4300U (4 Cores/4 Threads, 2.7GHz base / 3.7GHz boost)
RAM	16GB DDR4 (3200 MHz)
Storage	256GB M.2 SSD (Expandable up to 4TB via M.2 2280 slot)
Graphics	AMD Radeon Vega 5 (Integrated)
Operating System	Windows 11 Pro
Video Output	1x HDMI 2.0, 1x DP 1.4, 1x Type-C (DP1.4) - Supports Triple 4K@60Hz Displays
USB Ports	2x USB 3.2 Gen2 Type-A (Front), 1x USB 3.2 Gen2 Type-C (Front), 4x USB 3.2 Gen1 (Rear)
Network	1x RJ45 Gigabit Ethernet, Wi-Fi 5 (802.11ac), Bluetooth 4.2
Audio	1x 3.5mm Audio Jack (Front)
Dimensions	Approximately 5.05 × 5.05 × 1.61 inches
Weight	Approximately 1.1 lbs

8. WARRANTY AND SUPPORT

ACEMAGIC stands by the quality of its products. Your ACEMAGIC K1 Mini PC is backed by professional after-sales support. For any technical assistance, warranty claims, or product inquiries, please contact the ACEMAGIC customer support team. Refer to the product packaging or the official ACEMAGIC website for specific contact details and warranty terms.