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ACEMAGICIAN S3A

ACEMAGICIAN S3A Mini PC User Manual

Model: S3A

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your ACEMAGICIAN S3A Mini PC. Please read this manual thoroughly before using the device to ensure proper function and longevity.



Image: The ACEMAGICIAN S3A Mini PC, a compact desktop computer with front-facing ports and RGB lighting on the side panel.

2. SETUP GUIDE

2.1 Package Contents

Verify that all items are present in the package:

- ACEMAGICIAN S3A Mini PC
- Power Adapter
- HDMI Cable
- User Manual (this document)

2.2 Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable or a DisplayPort/USB-C cable to connect your monitor(s) to the corresponding ports on the Mini PC. The device supports up to three displays simultaneously for enhanced productivity.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB ports. Wireless peripherals can be connected via Bluetooth 5.2 or a USB dongle.
3. **Connect Power:** Plug the power adapter into the DC-in port on the Mini PC, then connect the adapter to a power outlet.
4. **Network Connection (Optional):** For a wired internet connection, connect an Ethernet cable to the LAN port. For wireless, ensure your WiFi network is available during initial setup.



Image: The ACEMAGICIAN S3A Mini PC connected to three monitors, demonstrating its triple display capability via HDMI, DisplayPort, and Type-C ports.

2.3 Initial Boot and Operating System Setup

After connecting all peripherals and power, press the power button located on the front of the device. The system will boot up. Follow the on-screen instructions to complete the initial setup of the pre-installed operating system (e.g., Windows 11).

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

- **Power On:** Press the power button once.
- **Power Off:** Access the operating system's shutdown menu. Alternatively, press and hold the power button for 5-7 seconds for a forced shutdown (use only when necessary).

3.2 Understanding Ports

The ACEMAGICIAN S3A Mini PC features a variety of ports for connectivity:

- **Front Ports:** Audio jack, USB 3.0 ports, USB Type-C port.
- **Rear Ports:** HDMI, DisplayPort, additional USB ports, Ethernet (LAN), DC-in for power.

3.3 Adjustable Performance Modes

The Mini PC offers three adjustable modes to optimize performance and power consumption:

THREE MODES ADJUSTMENT

Unlock power consumption and increase the fan speed limit for more powerful CPU and graphics card performance release.



Silent ECO MODE

Suitable for light office / home theater



AUTO MODE

medium office / mult-tasks / design



Performance MODE

Boost performance for
Play games / highly office work



Image: Diagram illustrating the three adjustable performance modes (Silent, Auto, Performance) with corresponding power button colors (blue, green, red) and recommended use cases.

- **Silent ECO Mode:** Ideal for light office work, web browsing, or home theater use. This mode prioritizes low noise operation and reduced power consumption.
- **Auto Mode:** A balanced mode suitable for daily tasks, medium office work, and multitasking. It provides a good balance between performance and noise.
- **Performance Mode:** Maximizes CPU and graphics card performance for demanding applications such as gaming or intensive design work. This mode may result in higher fan speeds and noise levels.

3.4 Wireless Connectivity

- **WiFi 6 (802.11ax):** Provides high-speed, stable wireless internet connectivity with lower latency. Connect to your WiFi network through the operating system's network settings.
- **Bluetooth 5.2:** Allows for wireless connection to compatible devices such as headphones, speakers, and controllers. Pair devices through the operating system's Bluetooth settings.

3.5 RGB Lighting Control

The Mini PC features customizable RGB lighting effects. To control the lighting, download the dedicated RGB control software from the ACEMAGICIAN official website or scan the QR code provided in the product packaging. The software typically offers modes such as On, Breathe, Cycle, and Rainbow.



Image: The ACEMAGICIAN S3A Mini PC displaying its RGB lighting effects, with options for On, Breathe, Cycle, and Rainbow modes.

4. MAINTENANCE

4.1 RAM and Storage Upgrades

The ACEMAGICIAN S3A Mini PC features a magnetic design for easy, one-step disassembly, allowing convenient access to memory slots and storage bays for upgrades.

Magnetic Design, one-step disassembly

Upgrading your RAM and SSD is simplified with an easy-upgrade Magnetic Design that gives you fast access to memory slots and storage bays.

- 2 x M.2 2280 NVMe/ NGFF

Max 4TB

- 2 x SO-DIMMDDR4

Max to 64GB

Magnetic



Image: The ACEMAGICIAN S3A Mini PC with its side panel removed, revealing the SO-DIMM DDR4 RAM slots and M.2 2280 SSD slots for easy upgrades. The magnetic design simplifies access.

- **RAM:** The device supports up to 64GB DDR4 SO-DIMM RAM.
- **Storage:** It supports up to 4TB M.2 2280 NVMe/NGFF SSDs.

To upgrade, gently remove the magnetic side cover, install the new components into the available slots, and reattach the cover.

4.2 Cleaning and Airflow

Regular cleaning helps maintain optimal performance and extends the lifespan of your Mini PC. The device incorporates an all-copper cooling fan and three dedicated exhaust vents.



Image: Diagram showing the internal cooling fan and external exhaust vents of the ACEMAGICIAN S3A Mini PC, highlighting its airflow design for efficient heat dissipation.

- Ensure the Mini PC is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior.
- Use compressed air to gently clear dust from the vents and ports to ensure proper airflow.
- Avoid blocking the air vents during operation.

5. TROUBLESHOOTING

If you encounter issues with your ACEMAGICIAN S3A Mini PC, refer to the following common troubleshooting steps:

- **No Power:**

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.

- **No Display:**

- Check that the monitor is powered on and the correct input source is selected.
- Ensure the HDMI, DisplayPort, or USB-C cable is securely connected to both the Mini PC and the monitor.
- Try a different display cable or monitor if available.

- **Performance Issues (Slowdown, Lag):**

- Ensure the Mini PC is operating in the appropriate performance mode (e.g., Performance Mode for demanding tasks).
- Close unnecessary applications running in the background.
- Check for sufficient free storage space on the SSD.
- Ensure the cooling vents are not obstructed and the device is not overheating.

- **Wireless Connectivity Problems:**

- For WiFi, ensure your router is working and the Mini PC is within range. Reconnect to the network in OS

settings.

- For Bluetooth, ensure the device you are trying to connect is in pairing mode and within range.
- Restart the Mini PC and your router/Bluetooth device.

If these steps do not resolve the issue, please contact ACEMAGICIAN customer support for further assistance.

6. SPECIFICATIONS

The following table details the technical specifications of the ACEMAGICIAN S3A Mini PC:

Feature	Specification
Processor	AMD Ryzen 7 Pro 5875U (8 Cores, up to 4.5GHz)
Graphics	AMD Radeon RX Vega8 Graphics
RAM	32GB DDR4 (3200 MHz), expandable up to 64GB
Storage	512GB NVMe SSD, expandable up to 4TB (2x M.2 2280 NVMe/NGFF slots)
Operating System	OS (typically Windows 11)
Wireless Connectivity	WiFi 6 (802.11ax), Bluetooth 5.2
Video Output	HDMI, DisplayPort, USB Type-C (supports 4K UHD @ 60Hz, Triple Display)
USB Ports	4x USB 3.0, 2x USB 2.0, 1x USB Type-C
Audio	1x 3.5mm Audio Jack
Dimensions	Approximately 11.06 x 8.9 x 5.28 inches
Weight	Approximately 3.23 pounds

7. WARRANTY AND SUPPORT

ACEMAGICIAN is committed to providing reliable products and customer satisfaction.

- Warranty:** The ACEMAGICIAN S3A Mini PC comes with a 12-month warranty from the date of purchase. This warranty covers manufacturing defects and hardware malfunctions under normal use.
- Technical Support:** Lifetime technical support is provided for your product. For any technical inquiries or assistance, please refer to the contact information below.
- Customer Service:** Our customer service team is available to assist with any product-related questions, concerns, or warranty claims.



12-Month Warranty



Lifetime Technical Support



Customer Service Support

Contact Information

For support, please visit the official ACEMAGICIAN website or refer to the contact details provided in your product packaging.