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## ACEMAGICIAN S3A

# ACEMAGICIAN S3A Mini PC Instruction Manual

Model: S3A | Brand: ACEMAGICIAN

## INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your ACEMAGICIAN S3A Mini PC. This compact desktop computer is powered by an AMD Ryzen 7 8745HS processor and features an AMD Radeon 780M GPU, 16GB DDR5 RAM, and a 512GB NVMe SSD, offering robust performance for various tasks from light gaming to office work.



Image: Overview of the ACEMAGICIAN S3A Mini PC's core components and capabilities.

## WHAT'S IN THE Box

Verify that all items are present in the packaging:

- Mini PC
- Power Adapter
- HDMI Cable

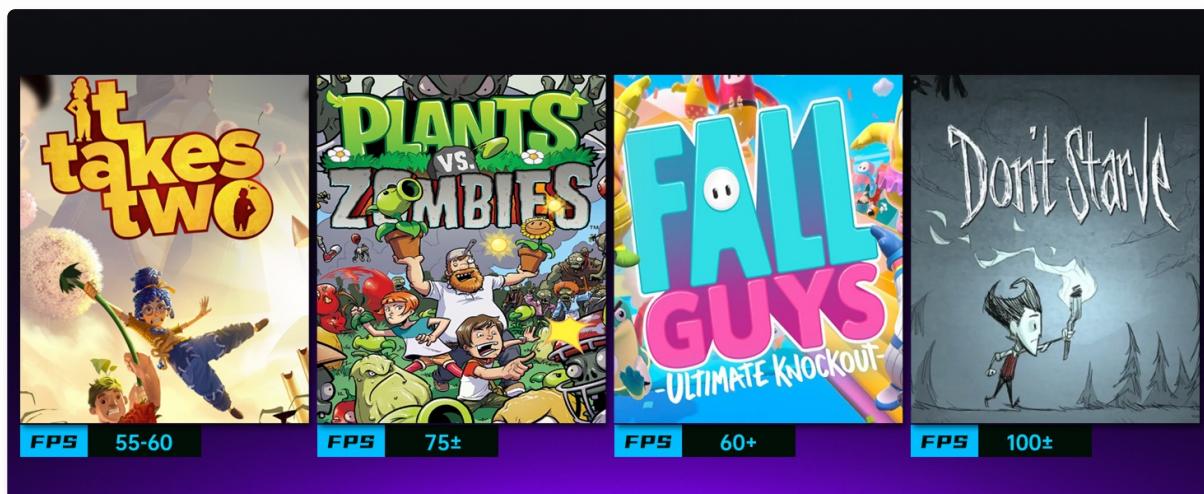


Image: Contents of the ACEMAGICIAN S3A Mini PC retail packaging.

## SETUP

1. **Connect Power:** Plug the power adapter into the DC IN port on the Mini PC and then into a power outlet.
2. **Connect Display:** Connect your monitor(s) to the Mini PC using the HDMI, DisplayPort (DP), or full-function Type-C port. The S3A supports up to three 4K displays simultaneously.
3. **Connect Peripherals:** Plug in your USB keyboard, mouse, and any other USB devices into the available USB 3.2 ports.
4. **Network Connection:** For wired internet, connect an Ethernet cable to the 2.5Gbps LAN port. For wireless, the device supports WiFi 6.
5. **Power On:** Press the power button on the front of the Mini PC.
6. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows 11 Pro setup, including language, region, network, and user account creation.



**FPS** 100-120



**FPS** 135±



**FPS** 100-120



**FPS** 85±



**FPS** 55-60



**FPS** 60+



**FPS** 75±



**FPS** 55±

\*1080P medium to low resolution

Image: Rear and side view of the ACEMAGICIAN S3A Mini PC highlighting available ports for connectivity.

## OPERATING MODES

The ACEMAGICIAN S3A Mini PC offers multiple operating modes to optimize performance and energy consumption based on your needs:

- **Silent Mode:** Ideal for quiet streaming or light work. Fan sound is as low as 35dB, and power consumption is reduced to 20-35W for smart energy saving.
- **Auto Mode:** Suitable for medium workloads or entertainment projects. The Mini PC power is set to 30-45W to improve work efficiency.

- **Performance Mode:** For demanding tasks and intense gaming. Power can be cranked up to 40-54W to handle the toughest graphics and upgrade your gaming experience. Adjustable RGB lighting effects provide atmosphere.

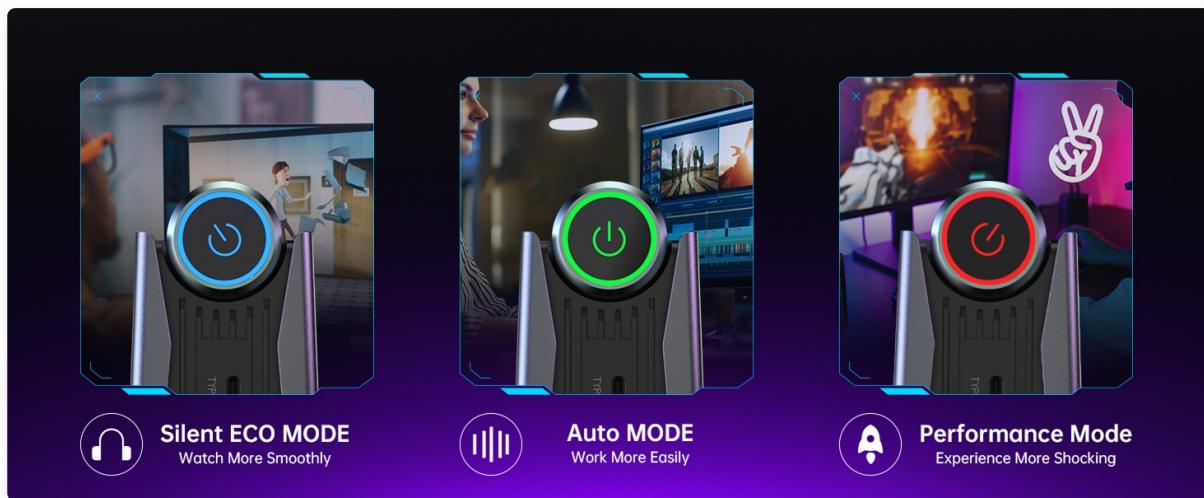


Image: Visual representation of the three distinct operating modes of the S3A Mini PC.

## FEATURES & PERFORMANCE

### Processor: AMD Ryzen 7 8745HS

The AMD Ryzen 7 8745HS processor (8 Cores/16 Threads, 16MB Cache, up to 4.9 GHz max boost) is built on the Zen4 Architecture and 4nm technology. It offers powerful performance comparable to high-end desktop processors, suitable for gaming and creative tasks.



Image: Detailed specifications and performance benchmarks for the AMD Ryzen 7 8745HS processor.

### Graphics: AMD Radeon 780M GPU

Equipped with the AMD Radeon 780M GPU (12 CUs, RDNA 3 Architecture, 2600MHz), this Mini PC supports DirectX 12 Ultimate for smooth gaming and visuals. It delivers significantly higher frame rates compared to previous integrated graphics solutions.



Image: Detailed specifications and performance benchmarks for the AMD Radeon 780M GPU.

## Memory & Storage

The S3A comes with 16GB of 5600MHz DDR5 RAM, pre-installed in dual-channel configuration (2 SO-DIMM DDR5 slots), and is upgradeable to a total of 64GB. It also includes a 512GB M.2 2280 NVMe PCIe4.0 SSD, offering data transmission speeds 10 times faster than ordinary SATA SSDs. Storage is upgradeable to 4TB.

## Cooling System

Equipped with a built-in dual-fan, high-efficiency cooling system, the S3A Mini PC ensures optimal thermal management during intense workloads and gaming sessions. This advanced design provides more efficient and faster heat dissipation compared to single-fan systems.

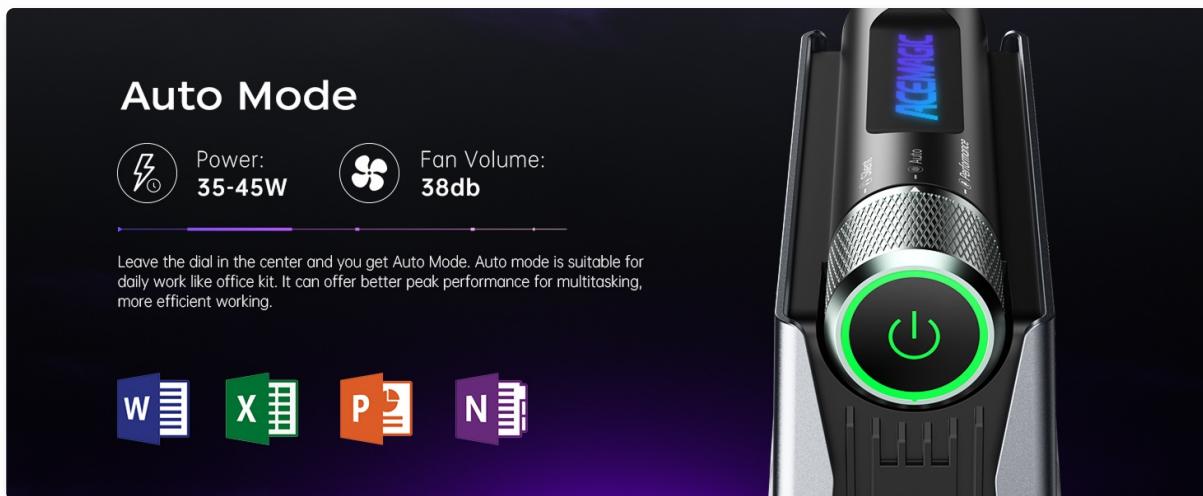


Image: Internal view and components of the advanced cooling system.

## Connectivity & Display Support

The S3A features WiFi 6 (802.11ax) for fast and stable wireless connections (up to 9.6Gbps) and Bluetooth 5.2 for connecting wireless peripherals. It includes a 2.5Gbps LAN port, 1 x HDMI, 1 x DP, and 1 x full-function Type-C port, supporting 4K triple display output for enhanced productivity.

## Performance Mode



Power:  
**45-54W**



Fan Volume:  
**42db**

Performance mode, which is prepared for heavy productivity and gaming. Slide the dial to the right for Performance Mode, the light turn red; which improves frame rates while gaming and offers a boost for other CPU and graphics-intense tasks.



Image: Triple-display setup demonstrating the S3A Mini PC's multi-monitor capabilities.

## SPECIFICATIONS

| Feature             | Specification   |
|---------------------|---|
| Model               | S3A   |
| Processor           | AMD Ryzen 7 8745HS (8C/16T, up to 4.9 GHz)                                |
| Integrated Graphics | AMD Radeon 780M   |
| RAM                 | 16GB DDR5 5600MHz (2 SO-DIMM slots, up to 64GB)                           |
| SSD                 | 512GB M.2 2280 NVMe PCIe4.0 (2 slots, up to 4TB)                          |
| Network             | WiFi 6, Bluetooth 5.2, 2.5Gbps LAN  |
| Display Output      | 1 x HDMI, 1 x DP, 1 x Type-C (full function) - Supports 4K Triple Display |
| Operating System    | Windows 11 Pro (also supports Linux, Ubuntu)                              |
| Dimensions          | 3.06 x 5.89 x 7.42 inches (approx.)                                       |
| Item Weight         | 3.45 pounds   |

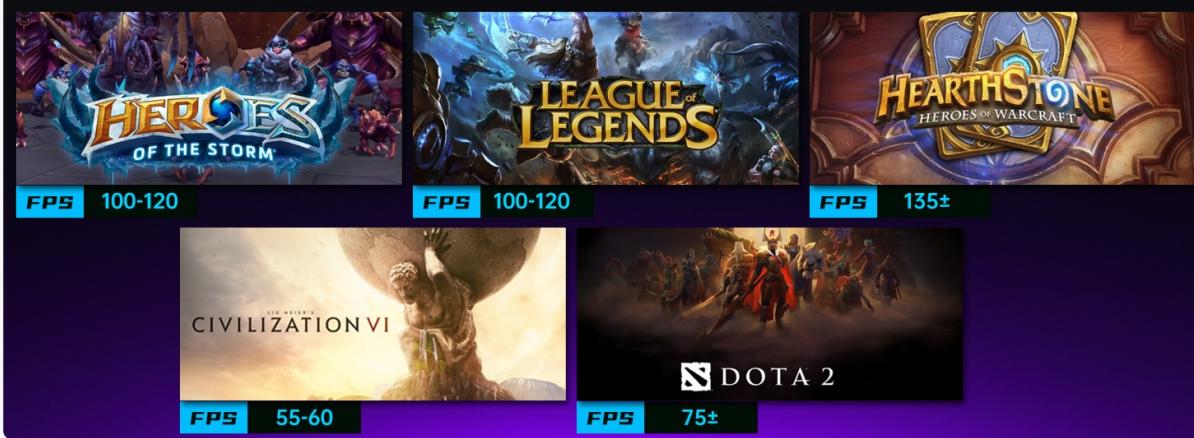


Image: Detailed product parameters and specifications.

## MAINTENANCE

To ensure the longevity and optimal performance of your ACEMAGICIAN S3A Mini PC, follow these maintenance guidelines:

- **Keep Vents Clear:** Ensure that the ventilation holes are not obstructed to allow for proper airflow and prevent overheating.
- **Regular Cleaning:** Periodically clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to gently clear dust from the vents.
- **Software Updates:** Regularly check for and install Windows updates, driver updates, and firmware updates to maintain system stability and security.
- **Safe Shutdown:** Always shut down the Mini PC properly through the operating system to prevent data corruption.
- **Magnetic Design for Upgrades:** The magnetic cover design allows for easy access to upgrade RAM (up to 64GB) and SSD (up to 4TB).

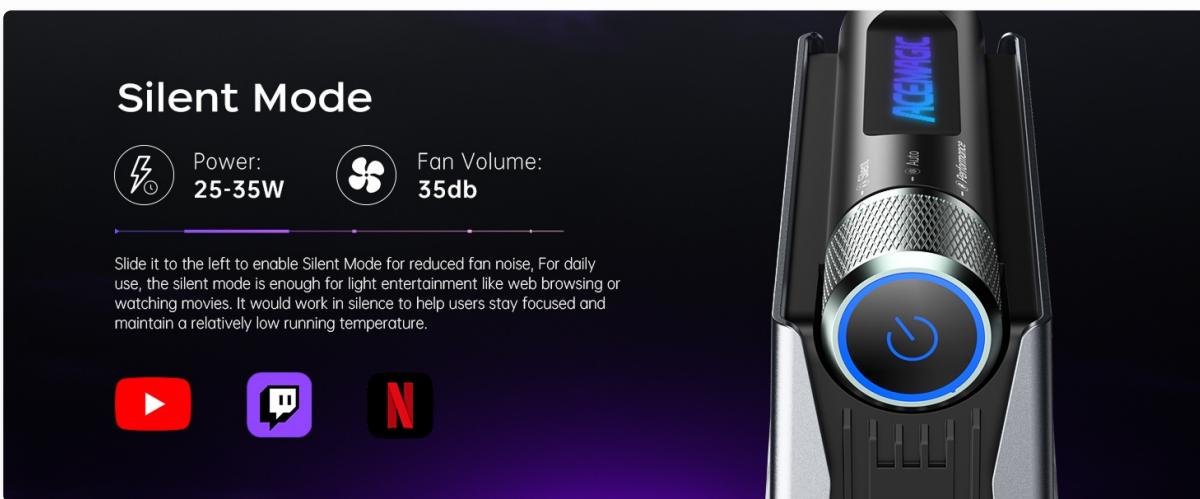


Image: Magnetic design for easy access and upgrades to RAM and SSD.

## TROUBLESHOOTING

If you encounter issues with your ACEMAGICIAN S3A Mini PC, try the following basic troubleshooting steps:

- **No Display:** Ensure all display cables (HDMI, DP, Type-C) are securely connected to both the Mini PC and the monitor. Verify the monitor is powered on and set to the correct input source.
- **Power Issues:** Check that the power adapter is correctly plugged into the Mini PC and a working power outlet. Try a different outlet if necessary.
- **Slow Performance:** Close unnecessary applications. Check Task Manager for high CPU, RAM, or disk usage. Ensure Windows and drivers are up to date. Consider clearing temporary files or running a disk cleanup.
- **Network Connectivity:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure the Wi-Fi adapter is enabled and you are connected to the correct network. Restarting your router may help.
- **Peripheral Not Responding:** Try connecting the peripheral to a different USB port. Restart the Mini PC. Ensure drivers for the peripheral are installed and up to date.

## WARRANTY & SUPPORT

ACEMAGICIAN is committed to providing high-quality products and excellent after-sales service. Your S3A Mini PC comes with a 12-month warranty and lifetime technical support.

For support inquiries, please use the following methods:

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



Image: ACEMAGICIAN brand logo, representing quality and support.