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GEEKOM GEEKOM A9 Max

GEEKOM A9 Max AI Mini PC User Manual

Model: GEEKOM A9 Max with AMD Ryzen AI 9 HX 370

1. Product Overview

The GEEKOM A9 Max AI Mini PC is a compact and powerful computing solution designed for a wide range of tasks, from advanced AI workloads and gaming to content creation and everyday multitasking. It features the latest AMD Ryzen AI 9 HX 370 processor and AMD Radeon 890M integrated graphics, delivering exceptional performance in a small form factor.

Image 1: The GEEKOM A9 Max Mini PC, showcasing its sleek, compact design.

2. What's in the Box

Verify that all items are present in the package:

- 1 x GEEKOM A9 Max Mini PC
- 1 x HDMI Cable
- 1 x Power Adapter
- 1 x User Guide
- 1 x VESA Mount

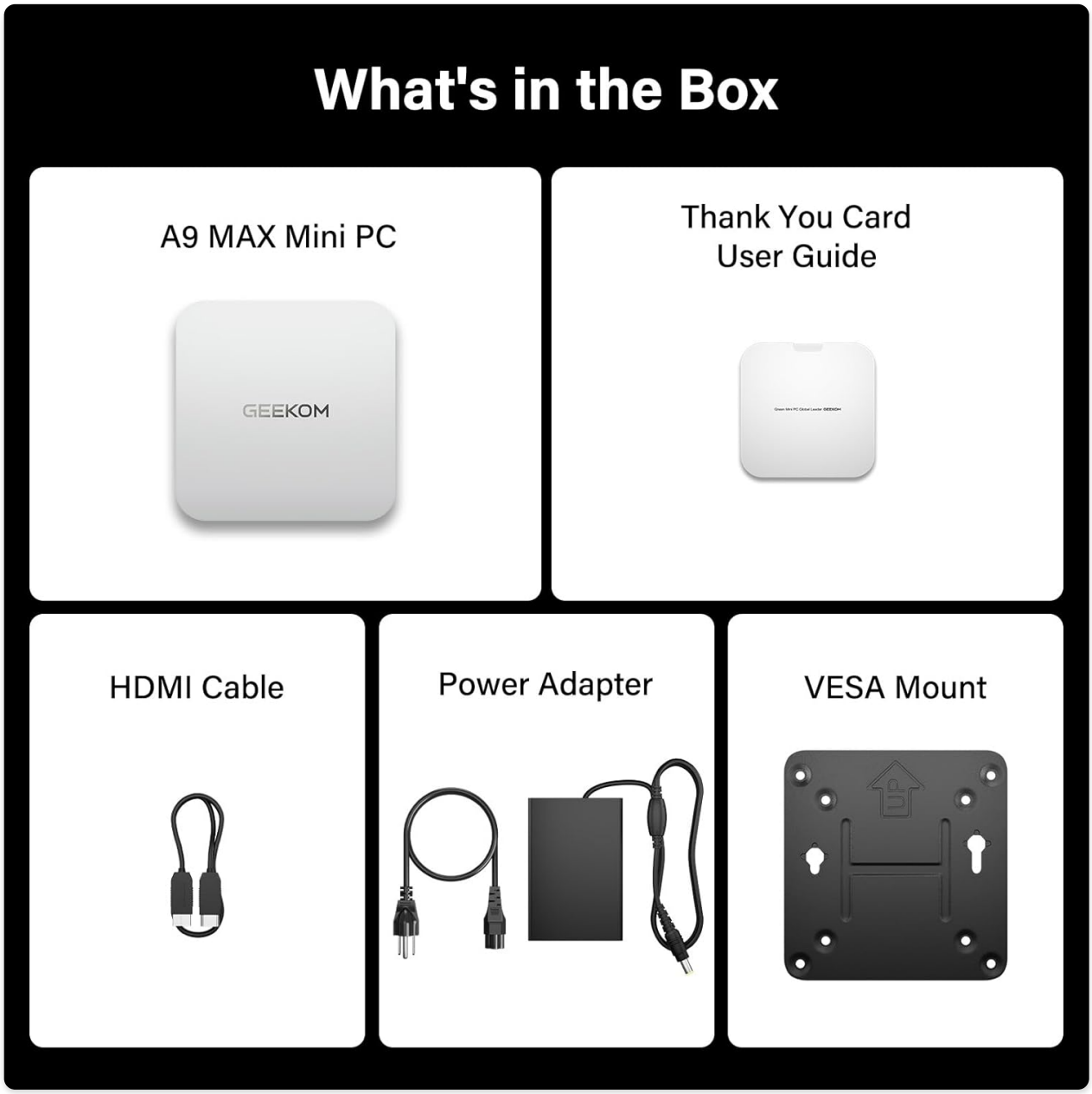

Image 2: All components included in the GEEKOM A9 Max Mini PC package.

3. Setup Guide

Follow these steps to set up your GEEKOM A9 Max Mini PC:

1. **Connect to Power:** Plug the power adapter into the DC-in port on the Mini PC and then into a power outlet.
2. **Connect to Display:** Use the provided HDMI cable to connect your Mini PC to a monitor or TV. The A9 Max supports up to four displays via 2x HDMI 2.1 and 2x USB4 ports.
3. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB ports.
4. **Power On:** Press the power button on the front of the Mini PC. The system will boot up with Windows 11 Pro pre-installed.

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Video 1: An unboxing and initial setup guide for the GEEKOM A9 Max Mini PC, demonstrating how to connect essential components.

Image 3: Front and side view of the GEEKOM A9 Max, highlighting the USB ports and headphone jack for peripheral connections.

Image 4: Rear view of the GEEKOM A9 Max, showing the power input, HDMI, USB4, and 2.5GbE LAN ports.

4. Operating Instructions

4.1 Performance Modes

The GEEKOM A9 Max offers multiple performance modes to suit your needs. These modes can typically be adjusted in the BIOS settings:

- **Silent Mode:** For quiet operation during light tasks.
- **Normal Mode (Default):** Balanced performance for everyday use.
- **Performance Mode:** Maximizes CPU and GPU power for demanding applications and gaming.

To access BIOS settings, tap the **Del (Delete)** key at startup/restart.

4.2 Connectivity

The Mini PC is equipped with advanced connectivity options:

- **USB4 Ports:** Two USB4 (40Gbps) ports with USB Power Delivery (PD) and display support.
- **HDMI 2.1:** Two HDMI 2.1 ports supporting up to 8K resolution and up to 4 displays simultaneously.

- **USB-A 3.2 Gen2:** Five USB-A 3.2 Gen2 ports for various peripherals.
- **2.5GbE LAN:** Dual 2.5 Gigabit Ethernet ports for fast and stable wired networking.
- **Wi-Fi 7 & Bluetooth 5.4:** For high-speed wireless connectivity and reliable device pairing.
- **SD 4.0 Card Reader:** Full-speed SD 4.0 card reader for creators and professionals.

Image 5: A multi-monitor setup demonstrating the GEEKOM A9 Max's capability to support up to four 8K displays for enhanced productivity and immersive experiences.

4.3 Operating System Compatibility

The GEEKOM A9 Max comes with Windows 11 24H2 Pro pre-installed. It also supports other operating systems such as Ubuntu, Manjaro, and Android-x86, making it versatile for various user needs.

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Video 2: A video highlighting the sustained power and performance of the GEEKOM A9 Max, ideal for demanding tasks.

5. Maintenance and Upgrades

5.1 Cooling System

The A9 Max features the **IceBlast 2.0 thermal system**, which includes an oversized copper heatsink, dual heat pipes, and a high-performance fan. This system ensures efficient heat dissipation and prevents thermal throttling, maintaining stable performance even under heavy loads.

Image 6: Diagram illustrating the IceBlast 2.0 cooling system with its copper heatsink and dual heat pipes for optimal thermal management.

5.2 Memory and Storage Upgrades

The Mini PC comes with 32GB DDR5 RAM and supports upgrades up to 128GB. It also features dual PCIe Gen4 NVMe SSD slots (1x M.2 2280 + 1x M.2 2230), each expandable to 4TB, allowing for significant storage and performance enhancements.

Image 7: Internal view of the GEEKOM A9 Max, showing the accessible DDR5 SODIMM slots and M.2 NVMe SSD slots for easy upgrades.

5.3 Durability

The GEEKOM A9 Max features a sleek all-metal chassis that enhances durability and improves heat dissipation. It is rigorously tested for thermal stability and long-term reliability under intensive use.

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Video 3: A video explaining the durability and quality control processes that ensure GEEKOM Mini PCs outlast competitors.

6. Troubleshooting

If you encounter any issues with your GEEKOM A9 Max, consider the following common troubleshooting steps:

- **No Display:** Ensure all display cables (HDMI, USB4) are securely connected to both the Mini PC and the monitor. Try a different cable or monitor if possible.
- **Power Issues:** Verify the power adapter is correctly plugged into the Mini PC and a working power outlet. If the device does not power on, try a different outlet.

- **Slow Performance:** Check for background applications consuming resources. Ensure your operating system and drivers are up to date. Consider switching to a higher performance mode in BIOS if applicable.
- **Peripheral Not Detected:** Try connecting the peripheral to a different USB port. Ensure drivers for the peripheral are installed.
- **System Instability/Crashes:** Ensure the system is adequately ventilated and not overheating. Update BIOS and all system drivers. If issues persist, consider reinstalling the operating system or contacting support.

7. Specifications

Feature	Detail
Brand	GEEKOM
Model Name	GEEKOM A9 Max
Operating System	Windows 11 Pro
CPU Model	AMD Ryzen AI 9 HX 370
CPU Speed	Up to 5.1 GHz
Graphics Coprocessor	AMD Radeon 890M
RAM Memory Installed	32 GB DDR5
RAM Memory Maximum Size	128 GB
Hard Disk Description	SSD (1TB installed, expandable to 4TB)
Video Output Interface	2 x HDMI 2.1, 2 x USB4
Display Resolution Maximum	7680x4320 Pixels (8K)
Connectivity Technology	Bluetooth 5.4, Dual 2.5G LAN, USB4, Wi-Fi 7
Item Dimensions	5.32 x 5.2 x 1.8 inches
Item Weight	1.66 Kilograms
Cooling Method	Air (IceBlast 2.0)

8. Warranty & Support

The GEEKOM A9 Max AI Mini PC comes with a**3-year limited warranty** from the date of purchase, covering defects in materials and workmanship. This warranty reflects GEEKOM's commitment to quality and long-term reliability.
For technical support or warranty claims, please refer to the contact information provided in your user guide or visit the official GEEKOM website. You can also contact the seller directly through your Amazon buyer's account by navigating to your order and selecting "Get help" or contacting the After-sales Team via email.