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GEEKOM AE8

GEEKOM AE8 AI Mini PC User Manual

Model: AE8

1. Introduction

Welcome to the GEEKOM AE8 AI Mini PC user manual. This guide provides detailed instructions for setting up, operating, maintaining, and troubleshooting your new mini PC. The GEEKOM AE8 is a compact yet powerful computing solution, featuring the AMD Ryzen 9 8945HS processor, designed for efficient performance across various tasks, from video editing to everyday office use.



Figure 1.1: GEEKOM AE8 Mini PC, showcasing its compact design and various ports.



Figure 1.2: The GEEKOM AE8 is designed to be portable and compact, fitting easily into various setups.

2. What's in the Box

Upon opening your GEEKOM AE8 package, please verify that all the following items are included:

- 1x AE8 Ryzen9 8945HS mini PC

- 1x Power Adapter
- 1x User Manual (this document)
- 1x HDMI Cable
- 1x VESA Mount



Figure 2.1: All items included in the GEEKOM AE8 package.

3. Setup

Follow these steps to set up your GEEKOM AE8 Mini PC for the first time:

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 Display:** Use the provided HDMI cable to connect your monitor to one of the HDMI 2.0 ports on the mini PC. For multiple displays or higher resolutions, utilize the USB4 (Gen3) Type-C port or the second HDMI port.
3. **Connect Peripherals:** Connect your keyboard and mouse to the available USB 3.2 (Gen 2) Type-A ports or USB 2.0 ports.
4. **Network Connection:** For a wired connection, connect an Ethernet cable to the 2.5G RJ45 LAN port. For wireless, the device supports WIFI 6E and Bluetooth 5.2.
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.

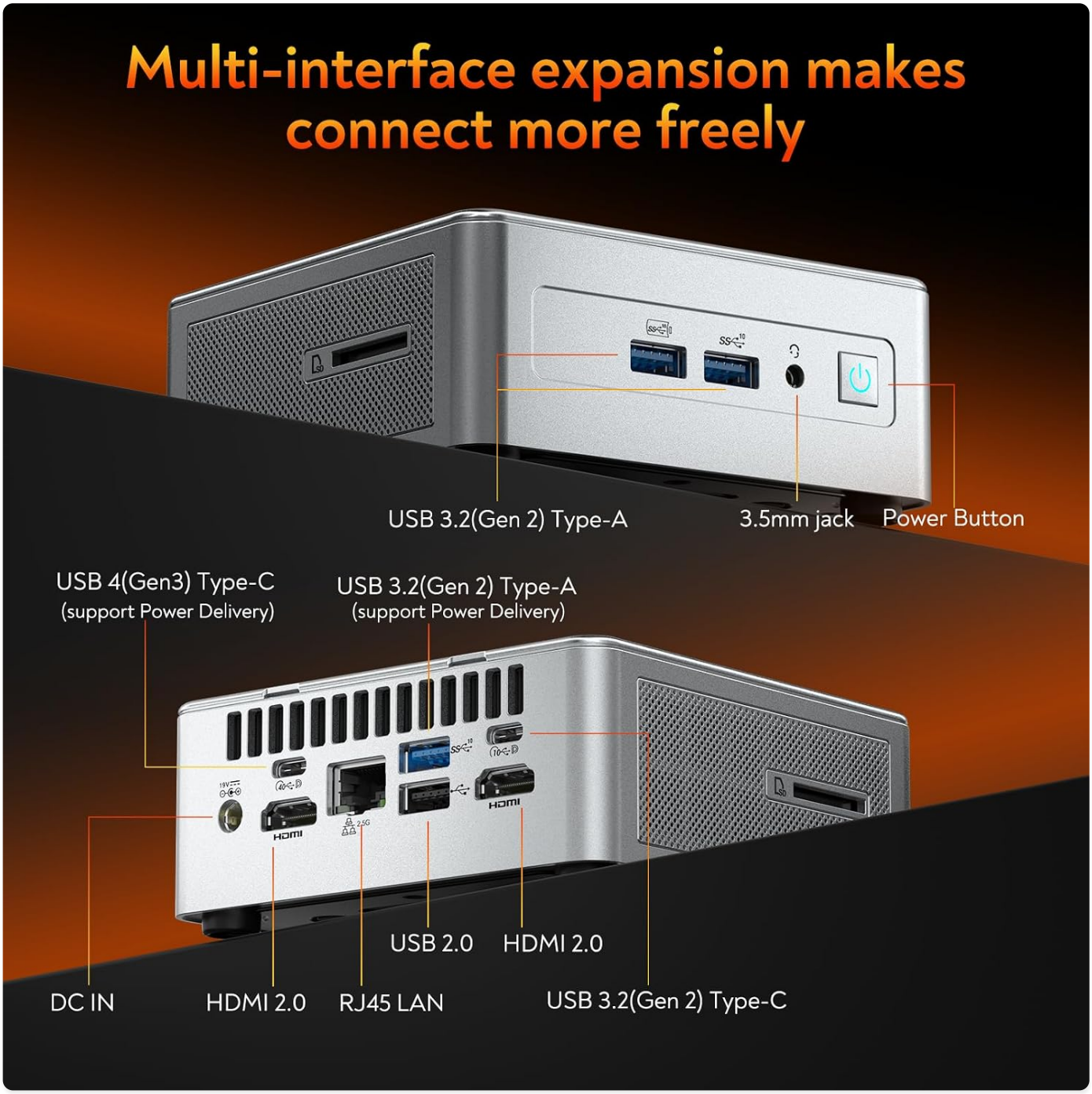


Figure 3.1: Multi-interface expansion for flexible connectivity options.



Figure 3.2: A typical setup of the GEEKOM AE8 Mini PC on a desktop.

4. Operating Your Mini PC

The GEEKOM AE8 is designed for high performance and versatility. Here are some key operational aspects:

4.1 Processor and AI Capabilities

Equipped with the AMD Ryzen 9 8945HS processor (8 cores, 16 threads, up to 5.2GHz), the AE8 delivers robust performance for demanding applications. It features AMD Ryzen AI, enhancing its capability for AI-driven tasks and supporting Windows 11's built-in AI features like Copilot.

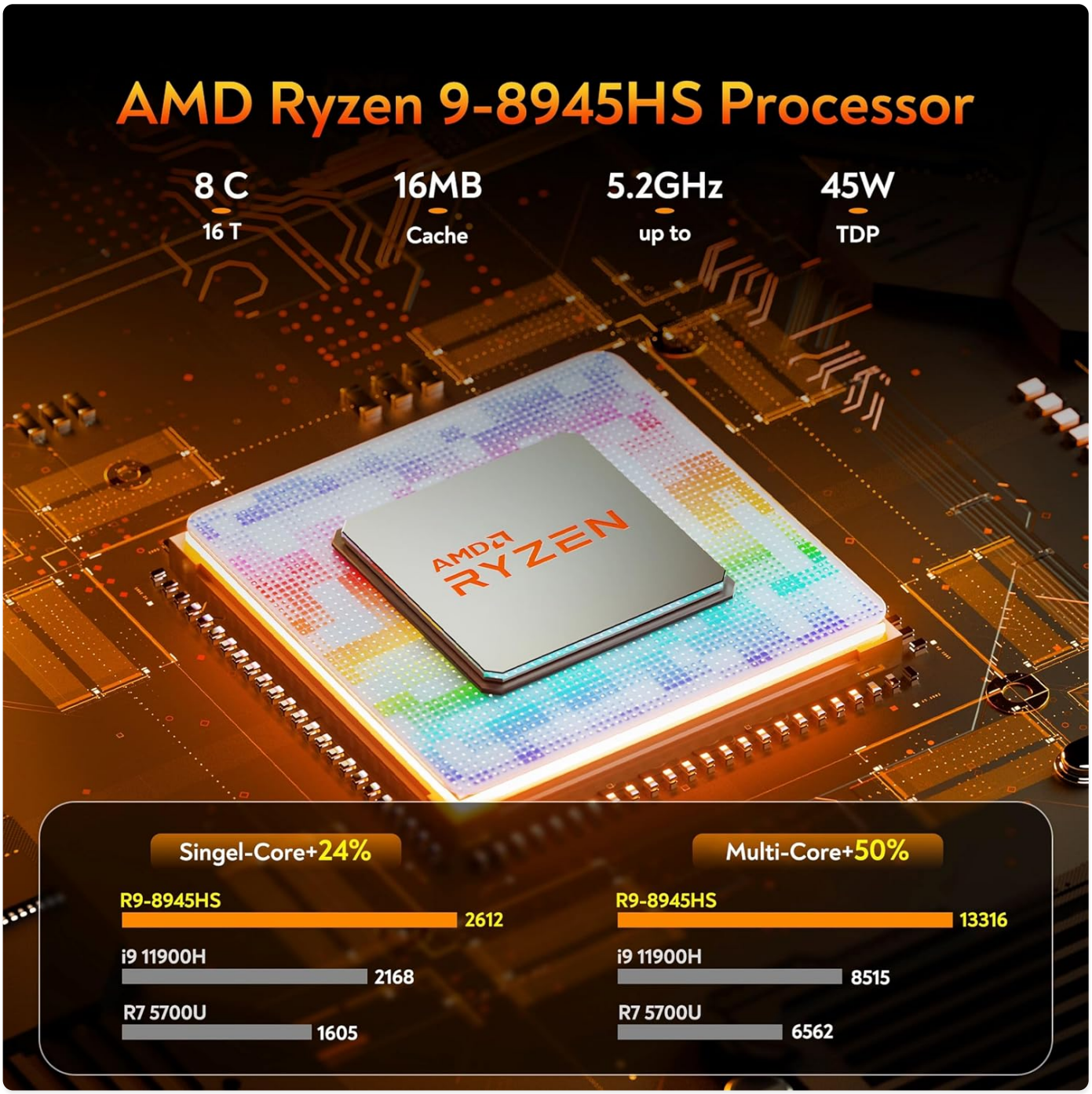


Figure 4.1: Overview of the AMD Ryzen 9 8945HS Processor's specifications.



Figure 4.2: The AE8 leverages Advanced NPU Technology for efficient AI processing.

4.2 Memory and Storage

The mini PC comes with 32GB of dual-channel DDR5 5600MT/s RAM, expandable up to 64GB, and a 1TB PCIe Gen4x4 SSD, expandable up to 2TB. This configuration ensures smooth multitasking and fast data access.



Figure 4.3: High-performance DDR5 Memory and PCIe Gen4 SSD for optimal speed.

4.3 Connectivity and Display Support

The AE8 offers comprehensive connectivity, including a high-speed USB4 port (up to 40Gbps), two HDMI 2.0 ports, and a full Type-C port. It supports an 8K@30 display or up to four 4K@60 displays simultaneously, ideal for productivity and immersive experiences.



Figure 4.4: Enjoy high-speed web surfing and stable network environments with the GEEKOM AE8.

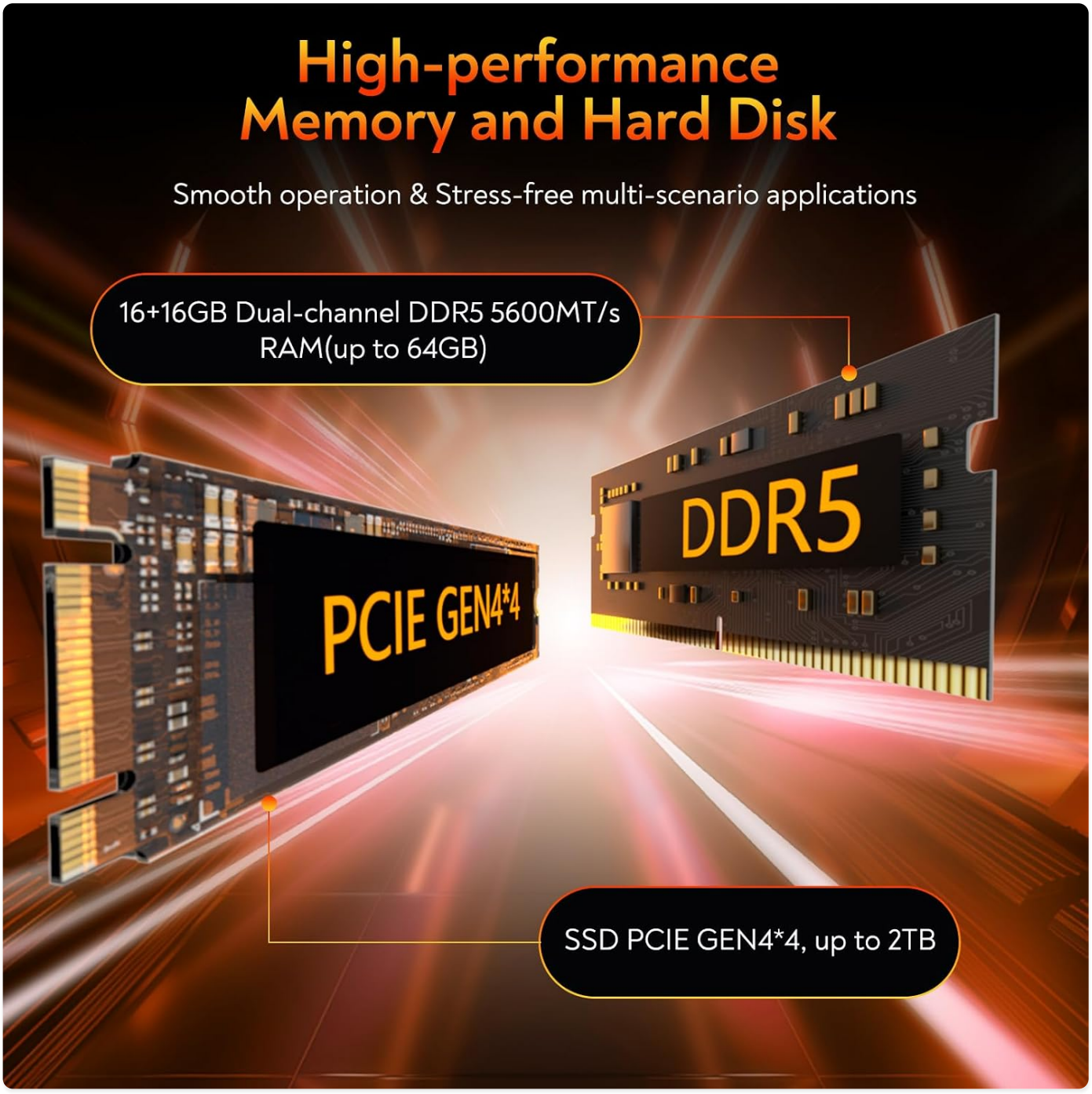


Figure 4.5: Experience 8K Ultra Striking Visuals and support for multiple displays.



Figure 4.6: The GEEKOM AE8 can easily handle multiple tasks and meet your storage requirements.



Figure 4.7: USB 4.0 Type-C offers faster and more stable data transfer speeds.



Figure 4.8: WIFI 6E and Bluetooth 5.2 provide high-speed wireless connectivity.

Video 4.1: An official video demonstrating the features and capabilities of the GEEKOM AE8 mini PC.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your GEEKOM AE8 Mini PC.

5.1 IceBlast Cooling System

The AE8 features GEEKOM's advanced IceBlast cooling system, designed for efficient heat dissipation and quiet operation. Ensure proper airflow around the device by keeping vents clear of obstructions.



Figure 5.1: The IceBlast cooling system ensures efficient heat dissipation and reduced noise.

5.2 RAM and SSD Upgrades

Both the RAM and SSD are designed for easy upgradeability. Refer to the detailed instructions in the full user manual for specific steps on how to access and replace these components. Always ensure the device is powered off and disconnected from the power source before performing any internal maintenance or upgrades.

6. Troubleshooting

If you encounter issues with your GEEKOM AE8 Mini PC, refer to the following common troubleshooting tips:

- **No Power:** Ensure the power adapter is securely connected to both the mini PC and a working power outlet. Try a different outlet if necessary.

- **No Display:** Verify that the HDMI or USB-C cable is firmly connected to both the mini PC and the monitor. Check the monitor's input source settings.
- **Peripheral Not Detected:** Try connecting the peripheral to a different USB port. Ensure drivers are up to date if required.
- **Slow Performance:** Check for background applications consuming resources. Ensure sufficient free storage space. Consider updating drivers or performing a system scan for malware.
- **Overheating/Fan Noise:** Ensure the mini PC's vents are not obstructed. Operate the device in a well-ventilated area.

For more complex issues, please refer to the detailed troubleshooting section in the complete user manual or contact GEEKOM support.

7. Specifications

Feature	Specification
Brand	GEEKOM
Series	AE8
Model Number	AE8
Processor	AMD Ryzen 9 8945HS (4 GHz, up to 5.2 GHz)
RAM	32 GB Dual Channel DDR5 5600MT/s (expandable to 64GB)
Hard Drive	1 TB PCIe Gen4x4 SSD (expandable to 2TB)
Graphics Coprocessor	AMD Radeon 780M 2800MHz
Operating System	Windows 11 Pro
Max Screen Resolution	7680 × 4320 Pixels (8K)
Connectivity	WIFI 6E, Bluetooth 5.2, 2.5G RJ45 LAN
Ports	USB4 (40Gbps), 2x HDMI 2.0, USB 3.2 Gen 2 Type-A, USB 3.2 Gen 2 Type-C, USB 2.0, 3.5mm Audio Jack, SD Card Reader
Item Weight	1.25 pounds
Product Dimensions	4.6 x 4.4 x 1.9 inches

8. Warranty and Support

GEEKOM provides comprehensive support for your AE8 Mini PC.

8.1 Manufacturer Protection

Your GEEKOM AE8 Mini PC is covered by a**3-Year Manufacturer Protection**. This warranty covers defects in materials and workmanship under normal use.



Figure 8.1: 3-Year Manufacturer Protection for your GEEKOM AE8.

8.2 Customer Support

For any inquiries, technical assistance, or warranty claims, please contact GEEKOM customer support through the following channels:

- **Find the Seller on Amazon:** Log in to your Amazon buyer's account, find your order, click 'Get help' to ask for assistance with this product.
- **Send E-mail to After-sales Team:** You can reach our support team directly via email atshirley.li@geekom.tw. We will respond as soon as possible.



Figure 8.2: Multiple channels available for GEEKOM customer support.

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Question

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Details

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