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GEEKOM A5

GEEKOM A5 Mini PC AMD Ryzen 7 7730U User Manual

Model: A5

Introduction

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your GEEKOM A5 Mini PC. The GEEKOM A5 is a compact and powerful mini PC equipped with an AMD Ryzen 7 7730U processor, designed for various applications from office work to creative tasks and home entertainment.

Setup

1. Package Contents

Before you begin, ensure all items are present in the package:

- A5 Main Unit (All-metal CNC integrated molding)
- VESA Mount (for monitor attachment)
- Power Adapter + Japanese standard AC Cable
- HDMI Cable



Image: GEEKOM A5 Mini PC and its included accessories.

2. Connecting Peripherals

Connect your monitor, keyboard, mouse, and other devices to the appropriate ports. The GEEKOM A5 offers a variety of ports for versatile connectivity.

- **Video Output:** Connect your monitor(s) using the HDMI 2.0 ports or USB-C ports (DisplayPort Alt Mode). The A5 supports up to four displays simultaneously.
- **USB Devices:** Utilize the 6 USB ports (USB 3.2 Gen 2 Type-A, USB 3.2 Gen 2 Type-C, USB 2.0 Type-A) for keyboard, mouse, external storage, and other peripherals.
- **Network:** Connect to the internet via the 2.5G RJ45 LAN port for wired connection or use the integrated Wi-Fi 6 for wireless connectivity.
- **Audio:** Use the 3.5mm headphone jack for audio output.
- **SD Card:** Insert SD cards into the dedicated SD card reader.



Image: Overview of GEEKOM A5 I/O ports.

3. Initial Power-On and Operating System Setup

Connect the power adapter to the DC jack on the mini PC and plug it into a power outlet. Press the power button located on the front of the unit. The GEEKOM A5 comes with a pre-installed operating system (Windows) with a legitimate license, allowing for immediate use upon unboxing. Follow the on-screen instructions for initial setup, including language, region, and user account creation.
The system also supports Linux environments like Ubuntu and Fedora, offering flexibility for developers and server applications.

Operating Instructions

1. Basic Usage and Performance

The GEEKOM A5, powered by the AMD Ryzen 7 7730U processor (8 cores, 16 threads, up to 4.5GHz), delivers robust performance for a wide range of tasks. It is suitable for:

- **Business & Remote Work:** Document creation, web conferencing, and data processing (e.g., Excel, Zoom).
- **Creative & Home Theater:** Video editing, RAW image processing, and 4K playback.
- **Development & Server Applications:** Linux environments, programming, and surveillance systems.



Image: GEEKOM A5 in various usage scenarios.

2. Multi-Display Configuration

The GEEKOM A5 supports simultaneous output to up to four displays, enabling enhanced multitasking and productivity. Connect monitors using the two HDMI 2.0 ports and two USB-C ports (which support DisplayPort Alt Mode). This is ideal for financial trading, design work, or expanding your workspace.



Image: GEEKOM A5 supporting up to 4 simultaneous displays.

3. Network and Wireless Connectivity

The A5 ensures stable and high-speed network connectivity:

- **Wi-Fi 6:** Provides faster speeds and improved performance in environments with multiple connected devices, reducing latency and disconnections.
- **Bluetooth 5.4:** Offers enhanced communication range, stability, and reduced power consumption compared to older versions, ensuring reliable connections for wireless peripherals.
- **2.5G LAN:** The wired LAN port offers 2.5 times the speed of standard 1G ports, ideal for large cloud data transfers and stable web conferencing.
- **3D Stereo Antenna:** Proprietary technology ensures 360-degree signal emission, eliminating Wi-Fi dead zones and providing a stable wireless environment comparable to wired connections.

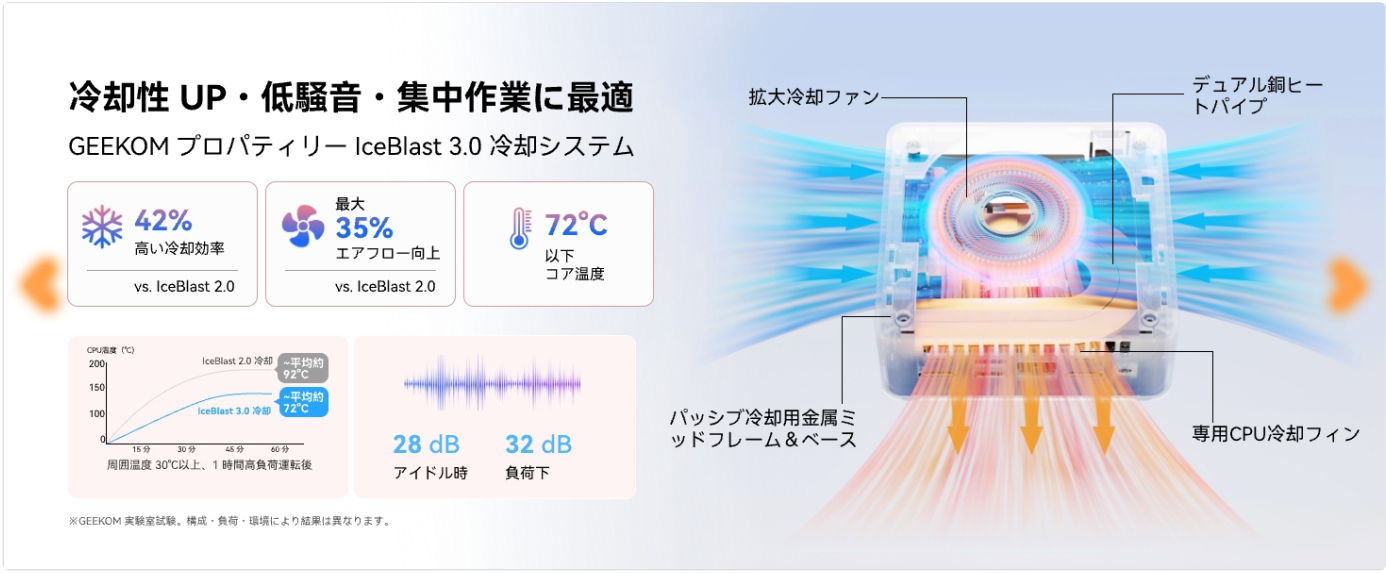


Image: Stable network environment with GEEKOM A5.

MAINTENANCE

1. Storage Expansion

The GEEKOM A5 offers extensive storage expansion options, supporting up to a total of 10TB across three independent storage slots:

- **M.2 2280 PCIe Gen3 x4 SSD:** Supports up to 4TB.
- **M.2 2242 SATA III SSD slot:** Supports up to 2TB.
- **2.5-inch 7mm SATA HDD slot:** Supports up to 4TB.

The RAM is also upgradeable, supporting up to 128GB of 16GB RAM SODIMM modules. This flexibility ensures your mini PC can adapt to future data storage and performance needs.

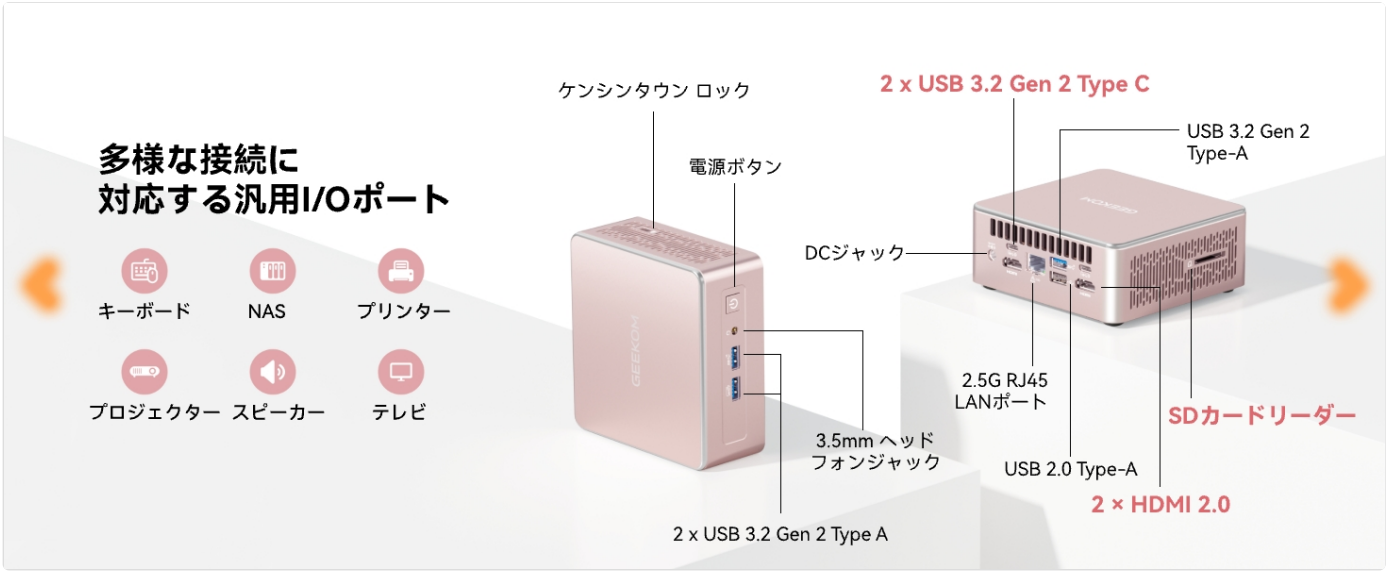


Image: GEEKOM A5 storage and RAM expansion options.

2. Cooling System

The GEEKOM A5 features the proprietary "IceBlast 3.0" cooling system, designed for optimal thermal management and quiet operation. This system includes a large-diameter fan, dual copper heat pipes, and an all-copper heatsink, effectively preventing performance degradation due to overheating (thermal throttling) even during prolonged high-load tasks.
The operating noise level is approximately 28dB at idle and 32dB under load, comparable to a library's quiet environment,

ensuring an undisturbed workspace.

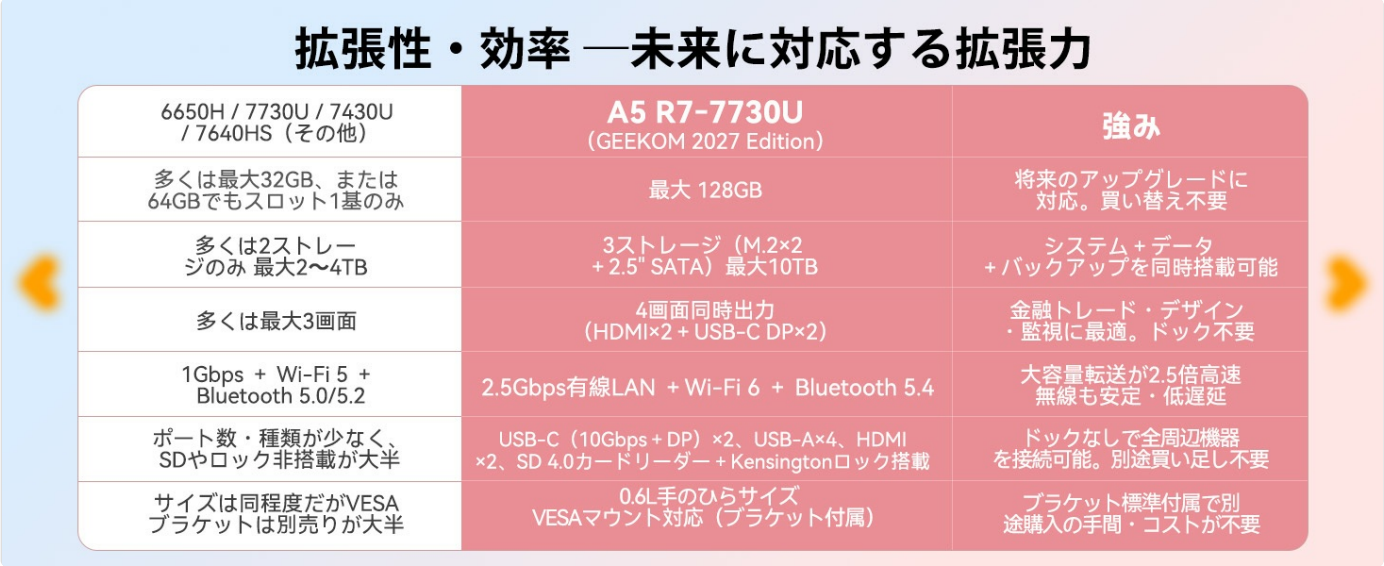


Image: IceBlast 3.0 Cooling System details.

3. General Care

To ensure the longevity and optimal performance of your GEEKOM A5 Mini PC:

- Keep the device in a well-ventilated area to prevent dust accumulation in the cooling vents.
- Regularly clean the exterior with a soft, dry cloth. Avoid using liquid cleaners directly on the device.
- Ensure the power supply is stable and avoid sudden power interruptions.
- The robust all-metal frame and high-quality motherboard contribute to its durability and stable operation for extended periods.



Image: GEEKOM A5 internal structure and design for durability and maintenance.

TROUBLESHOOTING

This section addresses common issues you might encounter with your GEEKOM A5 Mini PC. If you experience problems not covered here, please refer to the Warranty & Support section for assistance.

Common Issues and Solutions:

1. **No Power / System Not Starting:**

   Ensure the power adapter is securely connected to both the mini PC and a working power outlet. Verify the power button is pressed firmly. If using a power strip, check if it's switched on.

2. **No Display Output:**

   Check all video cables (HDMI, USB-C) are securely connected to both the mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source. Try connecting to a different monitor or using a different cable to rule out external issues.

3. **Unstable Bluetooth Connection:**

   If Bluetooth devices disconnect frequently, try re-pairing the device. Ensure there are no strong electromagnetic interference sources (like microwaves or other wireless devices) nearby. Update Bluetooth drivers if available. A user review mentioned that re-connecting often resolves temporary instability.

4. **Slow Performance / System Lag:**

   Close unnecessary applications running in the background. Check for sufficient free storage space. Ensure the cooling vents are not obstructed to prevent thermal throttling. While the A5 is designed for sustained performance, heavy multitasking or resource-intensive applications can still impact responsiveness if system resources are maxed out.

5. **Secure Boot Issues (for advanced users):**

   Some users reported Secure Boot being off by default. This can typically be enabled in the BIOS settings. For specific instructions on accessing and modifying BIOS settings, consult the GEEKOM support website or contact technical support.

6. **OS Reinstallation / License Activation:**

   The pre-installed OS has an embedded license key in the BIOS (OA3 version). If reinstalling the OS, the license should activate automatically. A text file containing the license key might also be present in the C: drive for reference.

SPECIFICATIONS

Feature	Detail
Brand	GEEKOM
Model Number	GEEKOM A5 7730U 16500
Operating System	Windows
CPU	AMD Ryzen 7 7730U
CPU Speed	2 GHz (Base), 4.5 GHz (Max Boost)
CPU Cores / Threads	8 Cores / 16 Threads
Cache Size	20 MB
Graphics Coprocessor	Radeon Vega 8 (Integrated)
VRAM Size	16 GB (Shared)
Memory (RAM)	16 GB DDR4 SDRAM (Upgradeable to 128 GB)
Storage Capacity	500 GB SSD (Expandable up to 10 TB)

Feature	Detail
Max Display Resolution	7680x4320 pixels
Video Output Interface	2x HDMI 2.0, 2x USB-C (DisplayPort)
USB Ports	6 (USB 2.0 Type-A, USB 3.2 Gen 2 Type-A, USB 3.2 Gen 2 Type-C)
LAN Port	2.5G RJ45
Wireless Type	Wi-Fi 6, Bluetooth 5.4
Cooling Method	Air Cooling (IceBlast 3.0)
Power Consumption	15 Watts
Product Dimensions	11.7 x 11.7 x 4.9 cm
Certifications	PSE, TELEC, CE, FCC, RoHS, TUV
Included Accessories	A5 Main Unit, VESA Mount, Power Adapter + AC Cable, HDMI Cable

Warranty & Support

GEEKOM is committed to providing excellent customer service and product reliability.

1. Warranty Information

The GEEKOM A5 Mini PC comes with a**3-year full warranty**, exceeding the industry standard of 1 year. This warranty includes:

- **1-Year Free Replacement:** For any manufacturing defects within the first year.
- **2-Years Free Repair:** For issues occurring after the first year, up to three years from purchase.
- **24/7 Support:** Continuous technical assistance.

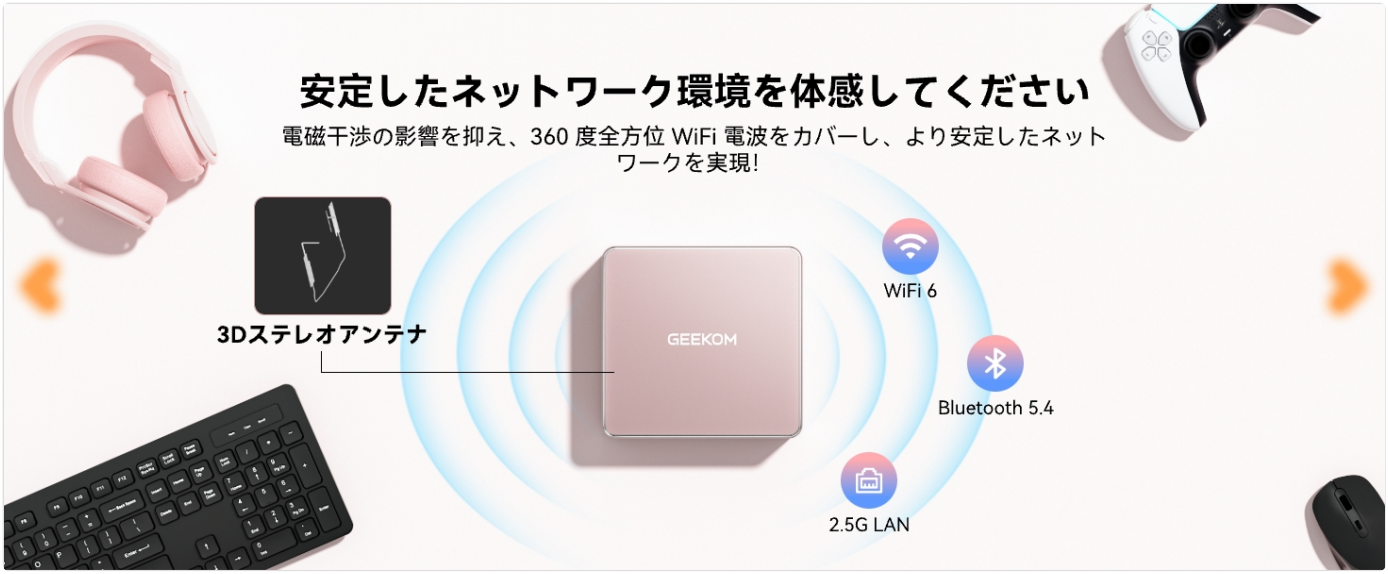


Image: GEEKOM 3-Year Warranty details.

2. Customer Support

For any inquiries or technical assistance, please contact GEEKOM support:

- **Online Support:** Visit the GEEKOM official website for FAQs, drivers, and support resources.
- **Email Support:** Send an email to service@geekom.jp for prompt assistance.
- **Amazon Seller Support:** If purchased through Amazon, you can contact the seller via your Amazon account by finding your order and clicking "Get Support."



Image: GEEKOM After-Sales Support options.

Additional Information

Security Features

The GEEKOM A5 incorporates several security measures:

- **Physical Tamper Prevention:** Kensington lock support and anti-theft alarms.
- **Secure Boot:** Prevents unauthorized software from loading during startup.
- **TPM 2.0 Security Module:** For hardware authentication and VPN/ID verification.
- **Peripheral Access Control:** Blocks unauthorized data transfer via USB/SD.
- **Secure System & Audit Trail:** Remote monitoring via logs and 24/7/365 IT audit monitoring.



Image: GEEKOM A5 5 Core Security Measures.

Environmental Impact & Efficiency

The GEEKOM A5 is designed with energy efficiency in mind, offering significant power savings compared to traditional desktop PCs. It consumes only 15W, leading to:

- **93% Power Consumption Reduction:** Compared to a 350W desktop PC.
- **Annual Savings:** Approximately ¥74,000 (Japanese Yen) in electricity costs.
- **CO2 Reduction:** Equivalent to planting 36 trees annually.

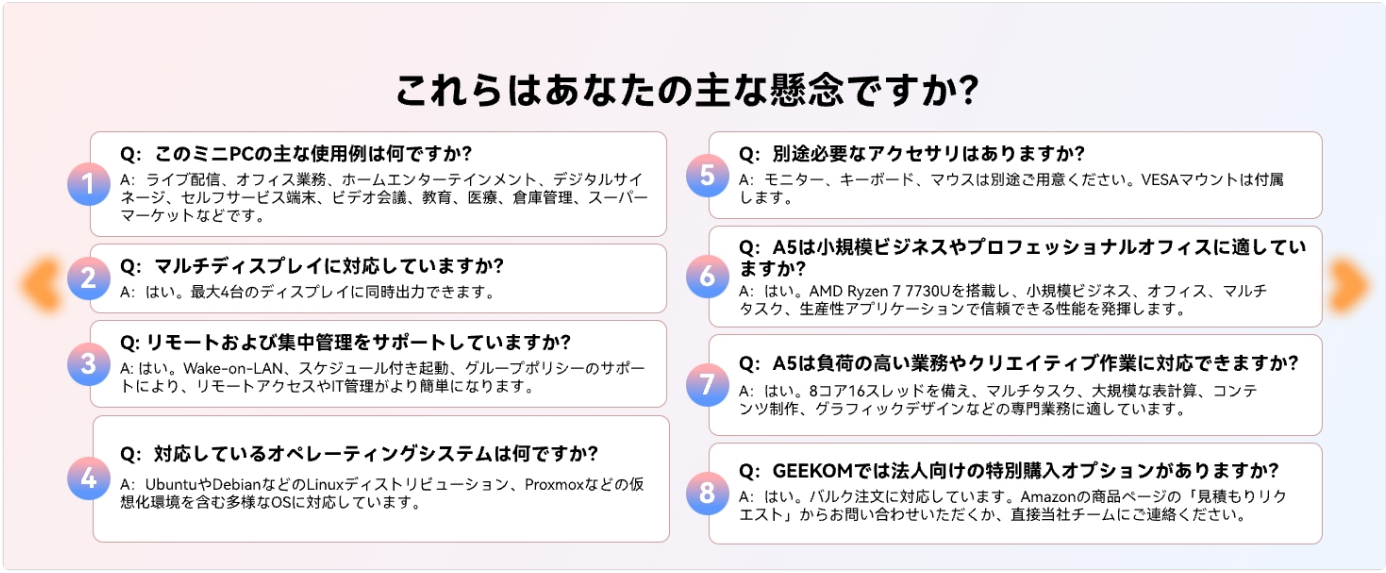


Image: GEEKOM A5 Enterprise-Grade Green Cost Optimization Solution.

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