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Khadas Khadas Mind Portable Workstation

Khadas Mind 2 Mini PC - Intel Core Ultra 5 125H User Manual

Model: Khadas Mind Portable Workstation
Brand: Khadas

1. Introduction

The Khadas Mind 2 Mini PC is a compact and powerful computing device designed for various tasks, from daily productivity to creative projects. This manual provides essential information for setting up, operating, and maintaining your device.



Figure 1: Khadas Mind 2 Mini PC, showcasing its compact design and available ports.

The device features a sleek, ultra-portable design, weighing just 435 grams and measuring only 2 cm thick. Its CNC unibody design and anodized aluminum casing provide both durability and a comfortable grip. The Khadas Mind 2 is equipped with an Intel Core Ultra 5 125H processor, 16GB of LPDDR5 memory, and a 512GB PCle 4.0 SSD, ensuring efficient performance for diverse applications.



Figure 2: The Khadas Mind 2 Mini PC demonstrating its ultra-portable and lightweight design, easily fitting into a small bag.

Video 1: An overview of the Khadas Mind Portable Workstation, highlighting its features and modularity.

2. WHAT'S IN THE BOX

Please ensure all items are present in the packaging:

- Mind 2 Mini PC
- Power Adapter
- USB-C Cable
- Instruction Manual

3. SETUP GUIDE

3.1 Initial Setup

- Connect Power: Connect the provided power adapter to the Khadas Mind 2 Mini PC and plug it into a power outlet.
- 2. **Connect to Display:** Use an HDMI 2.1 cable to connect the Mini PC to your monitor or TV. The device also supports Thunderbolt 4/USB4 for display output.
- 3. Connect Peripherals: Connect your keyboard and mouse to the available USB-A 3.2 Gen2 ports.
- 4. **Power On:** Press the power button located on the device to turn it on.

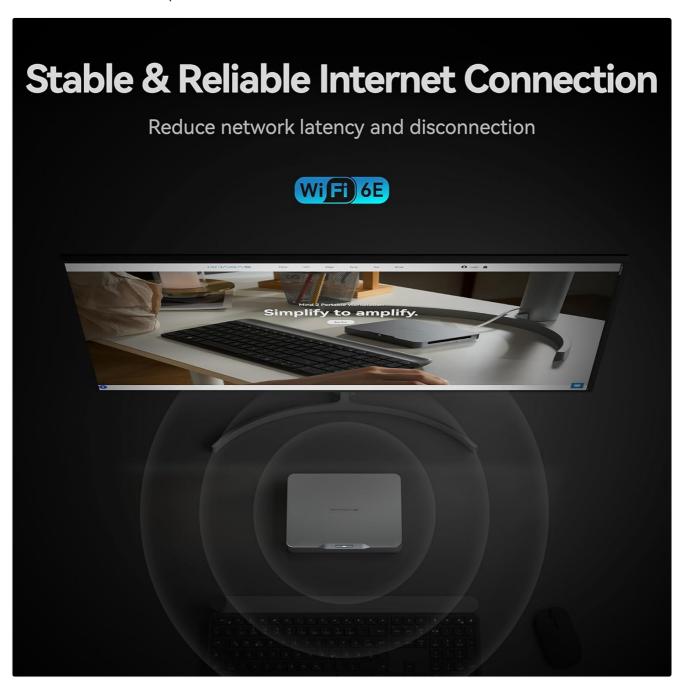


Figure 3: Rear view of the Khadas Mind 2 Mini PC, illustrating the available ports for connectivity.

3.2 First-Time Operating System Configuration

Upon first boot, the Windows 11 Home operating system will guide you through the initial setup process, including language selection, network connection, and user account creation. Follow the on-screen instructions to complete the setup.

4.1 Performance Overview

The Khadas Mind 2 is powered by the Intel Core Ultra 5 125H processor, featuring a three-in-one architecture (CPU, GPU, and NPU) for balanced performance. It includes 14 cores and 18 threads, with a max turbo frequency of up to 4.5GHz. The integrated Arc graphics provide enhanced visual performance, and the Al Boost NPU offers 34 TOPS of combined computing power for Al-driven tasks.

Intel® Core Ultra 5 125H Processor

14 Cores | 18MB | 4.5GHz

18 Threads

Cache

Max Turbo Frequency



Processor Benchmark

Ultra 5 125H

12130

i7-1360P

9482

Multi-core performanceincreased by 28% 7

Up to

16 GB

LPDDR5 memory

Up to

PCle 4.0 SSD

Figure 4: Detailed specifications and performance benchmarks for the Intel Core Ultra 5 125H processor.

Arc Integrated Graphics

Graphics maximum dynamic frequency of 2.25GHz

Intel AI Boost (NPU)

The Intel® AI Boost NPU core provides hardware acceleration for AI applications, designed specifically to tackle AI workloads. With the combined power of CPU, GPU, and NPU, the "triple-engines" deliver a maximum computing power of 34 TOPS, unleashing your AIGC superpowers.



Graphics Benchmark Arc™ Integrated Graphics 3671 Iris® Xe Graphics 1752 Performance boos 2X ↑

1.4 GHz
max frequency

34TOPS computing power

Figure 5: Overview of the Arc Integrated Graphics and Al Boost NPU, highlighting their performance metrics.

4.2 Connectivity and Expansion

The Mini PC offers versatile connectivity options:

- Thunderbolt 4 & USB4: For lightning-fast 40Gbps data transfers and display output.
- HDMI 2.1 TMDS: Supports 18Gbps output for high-resolution displays.
- USB-A 3.2 Gen2: Two ports offering 10Gbps data transfer.
- Wireless: Built-in Bluetooth 5.3 and Wi-Fi 6E for seamless wireless connections.



Figure 6: Thunderbolt 4 interface and its high-speed data transfer rates compared to other ports.

For storage expansion, the device includes an M.2 2230 SSD expansion slot with an ingenious magnetic cover design, allowing for easy addition of up to 2TB PCle 4.0 SSD storage.



4.3 Built-in Battery

The Khadas Mind 2 features a built-in 5.55Wh battery, providing up to 25 hours of standby time. This allows the device to enter sleep mode instantly upon power disconnection, preserving your work without data loss. It can wake up in just 2 seconds, enabling quick resumption of tasks.

Uninterrupted Mobility

Instant sleep upon power disconnection 25-hour standby time

5.55Wh 25 hours

Built-in 5.55Wh battery

Standby time



Figure 8: Illustration of the built-in 5.55Wh battery, enabling uninterrupted mobility and standby time.

5. Specifications

Feature	Detail
Processor	Intel Core Ultra 5 125H (14 Cores, 18 Threads, up to 4.5GHz)
RAM	16 GB LPDDR5 (6400.0 MHz)

Storage	512 GB PCle 4.0 SSD	
Graphics	Intel Arc Integrated Graphics (up to 2.2GHz, 8 GB VRAM)	
Operating System	Windows 11 Home	
Wireless Connectivity	Bluetooth 5.3, Wi-Fi 6E	
I/O Ports	Thunderbolt 4, USB4, HDMI 2.1 TMDS, 2x USB-A 3.2 Gen2	
Battery	5.55Wh (up to 25 hours standby)	
Dimensions (LxWxH)	5.75 x 4.13 x 0.79 inches	
Weight	15.2 ounces (approx. 435 grams)	

6. MAINTENANCE

6.1 Software Updates

Regularly check for and install operating system updates (Windows Update) and driver updates to ensure optimal performance and security. Visit the official Khadas website for the latest drivers and firmware for your Mind 2 Mini PC.

6.2 Cleaning

To maintain optimal performance and prevent overheating, periodically clean the device. Use a soft, dry cloth to wipe down the exterior. For vents, use compressed air to gently remove dust buildup. Ensure the device is powered off and unplugged before cleaning.

7. TROUBLESHOOTING

7.1 No Power

- Ensure the power adapter is securely connected to the device and the power outlet.
- · Verify the power outlet is functional by plugging in another device.

7.2 No Display Output

- Check that the HDMI or USB-C display cable is securely connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Try a different display cable or monitor to rule out hardware issues.

7.3 Connectivity Issues

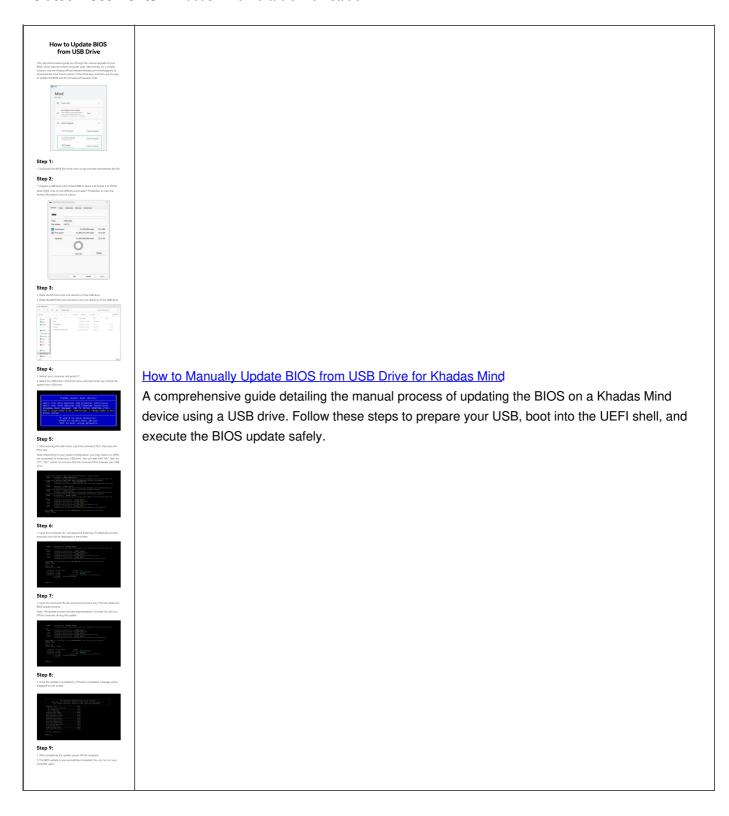
- For Wi-Fi, ensure the router is working and the device is within range. Reconnect to the Wi-Fi network.
- For Bluetooth, ensure the peripheral is in pairing mode and within range.
- For USB devices, try connecting to a different USB port or restarting the Mini PC.

8. WARRANTY AND SUPPORT

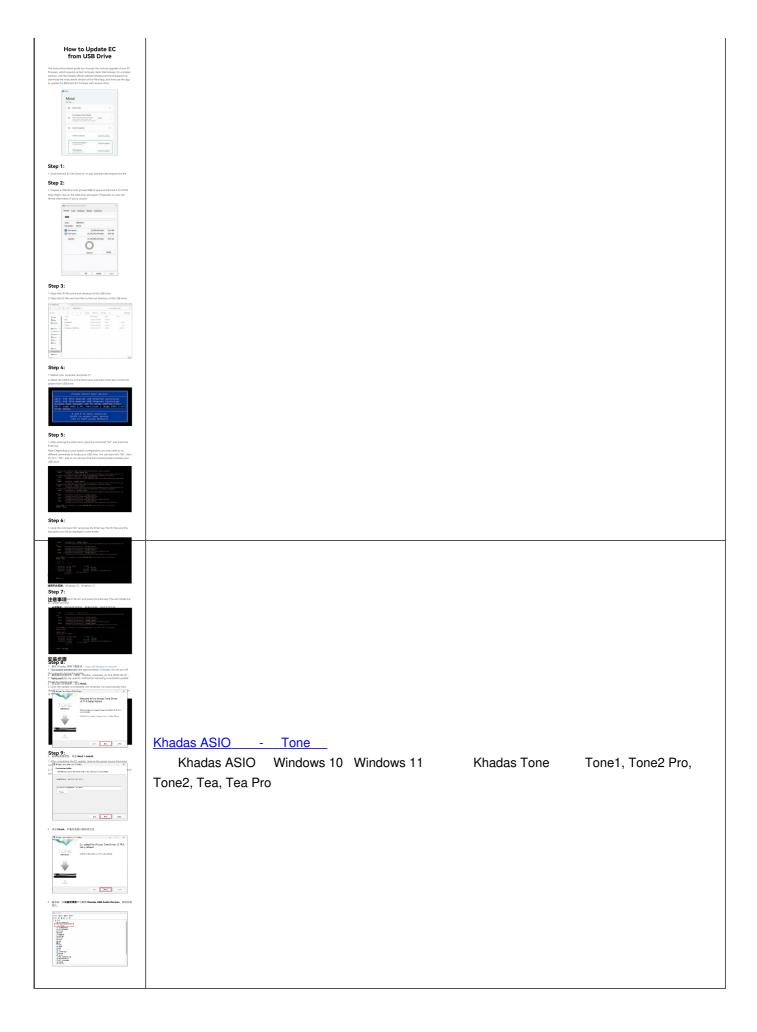
The Khadas Mind 2 Mini PC typically comes with a 3-year protection plan. For detailed warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official Khadas support website.

For technical support, troubleshooting assistance, or service inquiries, please contact Khadas customer support through their official website or designated channels.

Related Documents - Khadas Mind Portable Workstation



Haddoon seed to be compared to be co	Khadas Mind Dock User Guide and Specifications Official user guide for the Khadas Mind Dock, detailing its features, connection methods, ports, and hazardous substances information. Enhance your Mind workstation experience.
Tone2	Khadas Tone2 Quickstart Guide: Hi-Fi Mini Desktop DAC Get started with the Khadas Tone2 Hi-Fi Mini Desktop DAC. This guide covers interface, driver installation, firmware upgrades, usage modes, troubleshooting, and specifications.
	How to Update EC Firmware from USB Drive Khadas Mind
	A comprehensive guide detailing the manual process of updating the EC firmware on a Khadas Mind device using a USB drive. Learn how to prepare the USB drive, boot into the UEFI shell, and execute the firmware update for optimal device performance.





macOS DFU Upgrade Steps
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Khadas XMOS DFU Upgrade Guide

Step-by-step guide to upgrading the XMOS firmware on Khadas Tone1, Tone2, Tone2 Pro, and Tea Pro devices using Windows and macOS. Includes download links and important notes for a successful firmware update.