

khadas.com



KHADAS

Khadas Brand

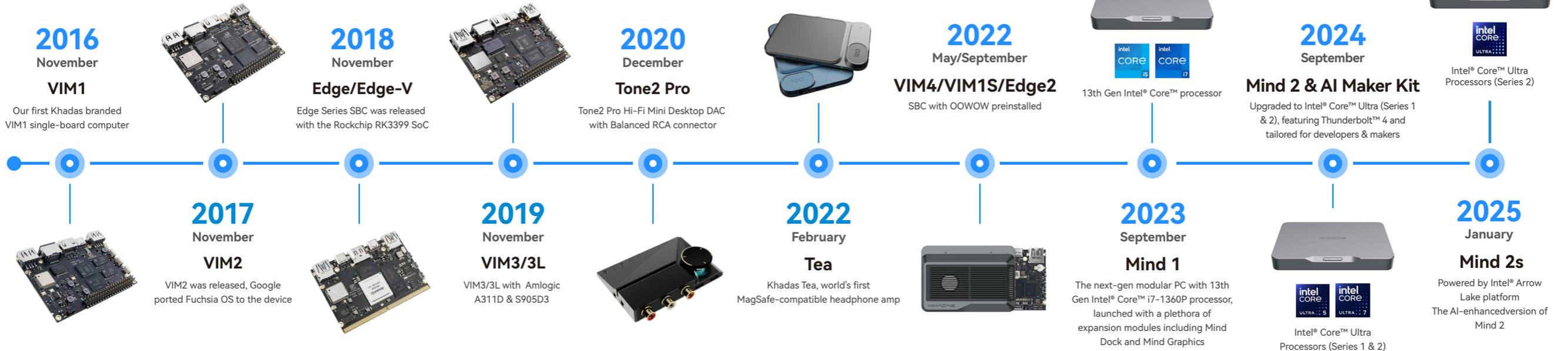
Founded in 2016, Khadas' journey began with a deep-seated passion for nurturing creativity. We take pride in our global reputation for delivering space-saving, easy-to-use, modular, and expandable products. We aim to allow our users to create bespoke digital experiences, enabling each of them to achieve their own unique dreams.

Our initial foray into the single-board computer (SBC) market proved to be just the beginning. Our offerings now range from high-end audio solutions to cutting-edge modular PCs.

Our portfolio includes:

- **Mind Series:** Ultra-compact modular PCs that can be customized with a full array of expansion modules, including but not limited to an eGPU and portable display.
- **Maker Series:** High-caliber SBCs recognized in the Maker community for delivering creativity-inspiring and cost-effective solutions across a range of industries and markets.
- **Music Series:** High-fidelity DACs and headphone amplifiers, known for their superior quality, sleek design, and revolutionary technology like Balanced RCA.

In addition to our thoughtfully designed hardware, Khadas enhances our user experience by providing continuous software updates and support for all our products.



Mind Family

Keep Your Creative Flow Uninterrupted

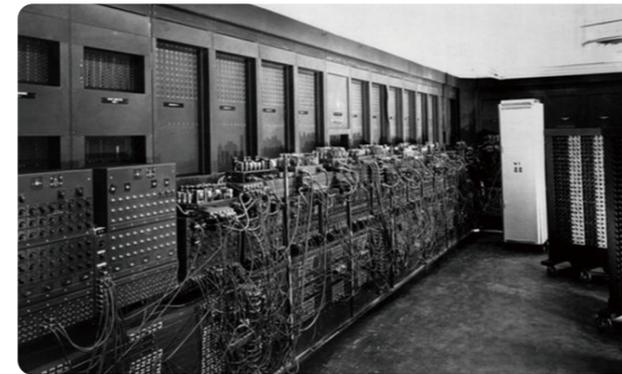


* The iF Design Award acknowledges Mind Family Products (including Mind, Mind Dock, Mind Graphics).

Why Mind?

Consider the historical milestones that shaped modern computing. On a frosty February 14th in 1946, ENIAC, the world's inaugural computer, came into being in Pennsylvania, USA. A massive machine weighing over 30 tons, it marked a pivotal moment in the digital revolution.

Fast-forward to a warm August 12th in 1981, IBM introduced the IBM 5150, the first personal computer, heralding a new era of personalized computing.



Throughout the years, computing evolved into various forms, from desktops and mini PCs to laptops and tablets, each meticulously tailored to specific use cases for optimal user experience.

However, the challenge lies in the transition between these computing scenarios. The need to effortlessly switch between a desktop setup in the office, a portable solution on the move, and a seamless transition to conference rooms remains unmet.

This is where Khadas stands apart as the trailblazer.

* To learn about the story of Mind, please visit <https://www.khadas.com/post/why-khadas-mind>.

Mind Link



The patented Mind Link interface designed by Khadas, allows Mind to adapt to a range of computing scenarios by combining with various expansion modules. With Mind as the foundation, Khadas continues to expand the Mind Family by designing new expansion modules based on user needs. Thanks to the magnetically-aligned Mind Link interface, you can seamlessly switch between expansion modules without saving your work or shutting down your device. It's easy to carry and offers one-click docking.

Mind Graphics



Mind Dock



Mind xPlay



Mind Series

Modular Mini PC



Mind Pro is the newest addition to the Mind family. It is equipped with a 7.98Wh built-in battery, undocks and redocks with various modules without needing to shut down or save your files. After reconnecting to power or a new module, the entire software environment retains the previous state. The 7.98Wh built-in battery provides up to 48+ hours of standby time, so that your work and inspiration are always available. Different scenarios, same experience.

* To learn more about Mind Series, please visit <http://www.khadas.com/mind>

Ultra-Thin & Ultra-Light

Weighs 435 grams, as thin as 2 cm
Palm-sized, easily fits in your pocket
CNC anodized aluminum casing
Compact power adapter



Adapts to Every Scenario That's Real Freedom

Exclusive Mind Link interface
Extensive Mind Family expansion modules
Supports a wide range of applications and scenarios
Build your dream modular PC



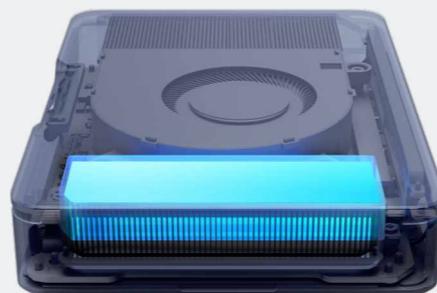
Redefining What Compact Power Can Do

Up to Intel® Core™ Ultra X9 processor
Tri-engine architecture: CPU + GPU + NPU
Intel Arc™ integrated graphics Engineered for the AI era



Uninterrupted Mobility

Built-in 7.98Wh battery
Automatic sleep upon power disconnection
48+ hour standby
2-second wake-up, instantly ready



Mind Pro Interfaces

Mind Pro is equipped with five interfaces on its compact body, meeting basic input and output needs. The HDMI interface supports 8K (60 Hz) or 4K (240 Hz) display, while the Thunderbolt 4 and USB4 interfaces support 8K (60Hz) as well as 4K (240Hz) display, and additional USB-A 3.2 interfaces allow 10 Gbps high-speed connectivity for everyday peripherals.



Thunderbolt™ 4

Compatible with USB4 / DP 2.1
Supports up to 8K (60Hz) or
4K (240Hz) display output.

HDMI 2.1 FRL

Up to 8K (60Hz) or
4K (240Hz) output.

USB-A 3.2 Gen2

10 Gbps high-speed
connectivity for everyday peripherals.

Compact Body

Using an ingenious design, Mind Pro integrates all essential components such as the motherboard, CPU, memory, built-in standby battery, SSD and heatsink into a compact unibody aluminum alloy case that is no larger than a quarter of an A4 sheet of paper. Weighing only 562 grams, and just 146 × 105 × 28 mm in size, it is only 1/48th the volume of traditional PCs. This means you can easily place Khadas Mind Pro into a bag or large pocket, allowing for unprecedented mobility and freedom.



Mind Pro

World's First Powerful Modular Mini PC Powered by 3rd-Gen Intel® Core™ Ultra Processor



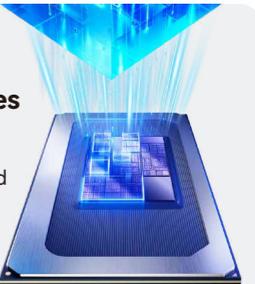
**3rd-Gen Intel® Core™ Ultra,
a leap in performance
and efficiency.**

Powered by the Intel® Core™ Ultra
X9 388H processor
96GB memory, 2TB storage



**Local AI,
Powered by Triple Engines**

16-core CPU, Arc™ B390 GPU,
and the new NPU 5 into a coordinated
three-engine acceleration platform,
delivering up to 180 TOPS
of local AI performance.



*These specs apply to Mind Pro X9 388H. Mind Pro X7 358H specs may vary.

Mind Pro Specs



Mind Pro (Intel® Core™ Ultra)

Ultra X9, 96GB Version¹

Processor

Intel® Core™ Ultra X9 388H processor
5.1GHz turbo frequency
16 cores, 16 threads
18MB cache

Memory

96GB LPDDR5X memory
Maximum frequency: 9600 MT/s

Storage

2TB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 4.0 M.2 2230 SSD × 1

I/O Ports

Thunderbolt 4 (40Gbps) × 2
HDMI 2.1 FRL (48Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Arc™ B390 GPU
2.5GHz dynamic frequency

Display Output²

HDMI 2.1 FRL:
up to 4K (240Hz) or 8K (60Hz)
Thunderbolt 4:
up to 4K (240Hz) or 8K (60Hz)

Mind Link

PCIe 5.0 x4 bandwidth
Max speed of 128 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input pow

Size & Weight

146 × 105 × 28 mm
562 g

Ultra X7, 64GB or 32GB Version¹

Processor

Intel® Core™ Ultra X7 358H processor
4.8GHz turbo frequency
16 cores, 16 threads
18MB cache

Memory

64GB LPDDR5X or 32GB LPDDR5X memory
Maximum frequency: 8533 MT/s

Storage

2TB or 1 TB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 4.0 M.2 2230 SSD × 1

I/O Ports

Thunderbolt 4 (40Gbps) × 2
HDMI 2.1 FRL (48Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Arc™ B390 GPU
2.5GHz dynamic frequency

Display Output²

HDMI 2.1 FRL:
up to 4K (240Hz) or 8K (60Hz)
Thunderbolt 4:
up to 4K (240Hz) or 8K (60Hz)

Mind Link

PCIe 5.0 x4 bandwidth
Max speed of 128 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

146 × 105 × 28 mm
562 g

1. Availability of the Mind Pro Core Ultra X9 96GB and Core Ultra X7 32GB configurations depends on CPU and memory supply.

2. To achieve the maximum resolution, connected monitors must support DSC.

Mind 2s

World's First Mini PC Powered by Intel Arrow Lake H Processor



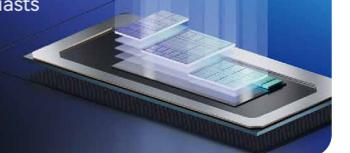
Intel Arrow Lake H

Intel Core Ultra 7 255H CPU
(code-named Arrow Lake H)
64GB memory, 2TB storage



AI On-The-Go

CPU + GPU + NPU: 96 TOPS total computing power
GPU: Up to 74 TOPS AI performance
Built for AI Enthusiasts



Mind 2s Specs



Mind 2s

Ultra 7, 255H

Processor

Intel® Core™ Ultra 7 255H
5.1GHz turbo frequency
16 cores, 16 threads
24MB cache

Memory

64GB LPDDR5X memory
Maximum frequency: 8400 MHz

Storage

2TB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 4.0 M.2 2230 SSD × 1

I/O Ports

Thunderbolt 4 × 1
USB4 × 1
HDMI 2.1 TMDS (18Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Arc™ GPU
2.25GHz dynamic frequency

Display Output

HDMI 2.1 TMDS: up to 4K (60Hz)
Thunderbolt 4 or USB4: up to 8K (60Hz), 5K (72Hz) or 4K (240Hz)

Mind Link

PCIe 5.0 x8 bandwidth, Max speed of 256 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

146 × 105 × 20 mm
435 g

Mind 2 Specs



Mind 2

Ultra 7, 64GB / 32GB Version

Processor

Intel® Core™ Ultra 7 155H processor
4.8GHz turbo frequency
16 cores, 22 threads
24MB cache

Memory

64GB LPDDR5X or 32GB LPDDR5 memory
Maximum frequency: 7467MHz or 6400MHz

Storage

2TB or 1TB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 4.0 M.2 2230 SSD × 1

I/O Ports

Thunderbolt 4 × 1
USB4 × 1
HDMI 2.1 TMDS (18Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Arc™ GPU
2.25GHz dynamic frequency

Display Output

HDMI 2.1 TMDS: up to 4K (60Hz)
Thunderbolt 4 or USB4: up to 8K (60Hz), 5K (72Hz) or 4K (240Hz)

Mind Link

PCIe 5.0 x8 bandwidth, Max speed of 256 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

146 × 105 × 20 mm
435 g

Ultra 5, 16GB Version

Processor

Intel® Core™ Ultra 5 125H processor
4.5GHz turbo frequency
14 cores, 18 threads
18MB cache

Memory

16GB LPDDR5 memory
Maximum frequency: 6400MHz

Storage

512GB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 4.0 M.2 2230 SSD × 1

I/O Ports

Thunderbolt 4 × 1
USB4 × 1
HDMI 2.1 TMDS (18Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Arc™ GPU
2.2GHz dynamic frequency

Display Output

HDMI 2.1 TMDS: up to 4K (60Hz)
Thunderbolt 4 or USB4: up to 8K (60Hz), 5K (72Hz) or 4K (240Hz)

Mind Link

PCIe 5.0 x8 bandwidth, Max speed of 256 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

146 × 105 × 20 mm
435 g

Mind 1 Specs



Mind 1

i7, 32GB Version

Processor

13th Gen Intel® Core™ i7-1360P processor
5.0GHz turbo frequency
12 cores, 16 threads
18MB cache

Memory

32GB LPDDR5 memory
Maximum frequency: 5200MHz

Storage

1TB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 3.0 M.2 2230 SSD × 1

I/O Ports

Full-featured USB-C × 2
HDMI 2.0 (18Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Iris® Xe Graphics
1.5GHz dynamic frequency

Display Output

HDMI 2.0: up to 4K (60Hz)
Full-featured USB-C: up to 8K (60Hz),
5K (72Hz) or 4K (240Hz)

Mind Link

PCIe 4.0 x4 bandwidth, Max speed of 64 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

146 × 105 × 20 mm
435 g

i5, 16GB Version

Processor

13th Gen Intel® Core™ i5-1340P processor
4.6GHz turbo frequency
12 cores, 16 threads
12MB cache

Memory

16GB LPDDR5 memory
Maximum frequency: 5200MHz

Storage

512GB PCIe 4.0 M.2 2230 SSD
Expandable: PCIe 3.0 M.2 2230 SSD × 1

I/O Ports

Full-featured USB-C × 2
HDMI 2.0 (18Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Graphics

Intel Iris® Xe Graphics
1.45GHz dynamic frequency

Display Output

HDMI 2.0: up to 4K (60Hz)
Full-featured USB-C: up to 8K (60Hz),
5K (72Hz) or 4K (240Hz)

Mind Link

PCIe 4.0 x4 bandwidth, Max speed of 64 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

146 × 105 × 20 mm
435 g

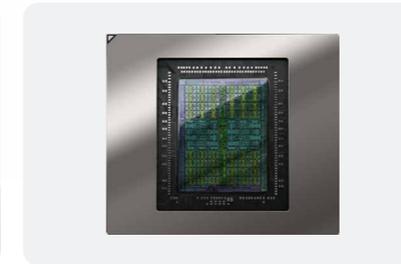
Mind Graphics 2

eGPU Module



Unleash Your GPU's Potential

Mind Link: 128 GT/s transmission speed
Four times the bandwidth of Thunderbolt 4 to fully realize the potential of your GPU



Cutting-Edge Architecture

NVIDIA® GeForce RTX™ 5060 Ti
NVIDIA Blackwell architecture
16GB GDDR7 VRAM

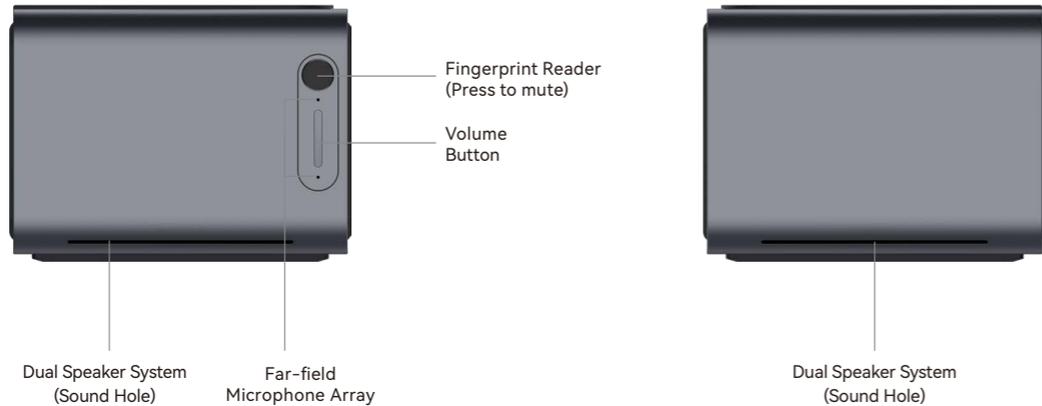
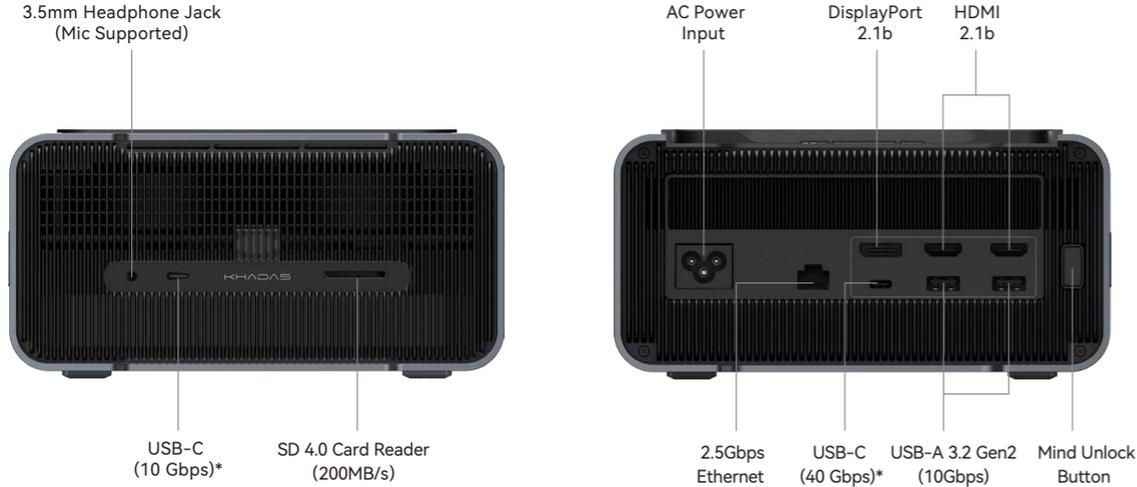


Multi-Device Compatibility

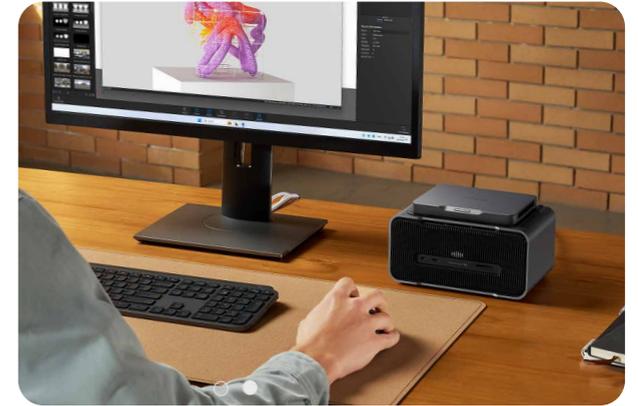
Universal USB-C interface, supporting GPU acceleration via Thunderbolt 4/3

Mind Graphics 2 Interfaces

Housing the NVIDIA GeForce RTX 5060 Ti desktop-class dedicated graphics card, Mind Graphics seamlessly accelerates your 3D rendering and gaming tasks. Moreover, it can provide GPU acceleration to other laptops via USB-C connectivity. Mind Graphics also includes an array of built-in expansion interfaces, thus comprehensively meeting all your I/O needs. The built-in high-quality speakers bring delightful rhythms to your life beyond work.



Mind Graphics 2 Specs



GPU

NVIDIA GeForce® RTX™ 5060 Ti
Architecture: NVIDIA Blackwell
GPU Max Power: 180W

VRAM

16GB GDDR7

Power

PSU Max Power: 350W
PSU Type: Integrated GaN

Audio & Buttons

Dual Microphones
Dual Speakers
Fingerprint Reader (press to mute)
Volume Button

I/O Interfaces

USB-C (40 Gbps) × 1
* When not connected to Mind, this port supports GPU acceleration via Thunderbolt 4/3 or USB4.
USB-C (10 Gbps) × 1
* When connected to a Thunderbolt host through the USB-C (40 Gbps) port, or when connected to Mind via Mind Link, this port supports USB 3.2 Gen 2 (10 Gbps) data transfer and PD power output (up to 5V/3A).
USB-A 3.2 Gen2 (10 Gbps) × 2
HDMI 2.1b × 2
DisplayPort 2.1b × 1
2.5 Gbps Ethernet × 1
SD 4.0 Card Reader (200 MB/s) × 1
3.5mm Headphone Jack × 1

Supports 3rd Party Devices

Supports Thunderbolt 4/3 connection
Compatible with laptops and desktops
Enjoy accelerated graphics & Recharge your device

Size & Weight

199 mm × 133 mm × 100 mm
3 kg

Mind Graphics Specs



GPU

NVIDIA GeForce® RTX™ 4060 Ti (Desktop GPU)
Architecture: Ada Lovelace
GPU Max Power: 160W / 165W

VRAM

8GB / 16GB GDDR6

Power

PSU Max Power: 300W
PSU Type: Integrated GaN

Audio & Buttons

Far-field Microphone Array
Dual Speaker System
Fingerprint Reader (Press to mute)
Volume Button

I/O Interfaces

USB-C × 1
*When not connected to Mind, it supports Thunderbolt 4/3 graphics acceleration and PD charging.
USB 3.2 Gen2 (10 Gbps) × 3
HDMI 2.1a × 2
DisplayPort 1.4a × 1
2.5 Gbps Ethernet × 1
SD 4.0 Card Reader (200 MB/s) × 1
3.5mm Headphone Jack × 1

Supports 3rd Party Devices

Supports Thunderbolt 4/3 connection
Compatible with laptops and desktops
Enjoy accelerated graphics & Recharge your device

Size & Weight

199 mm × 133 mm × 100 mm
2.7 kg

Mind Dock

All-in-one Expansion Dock



Fingerprint Recognition

Unlock in milliseconds, private and convenient



Stereo Speakers

Rotate-push volume knob
Endorsed by music enthusiasts



Rich I/O Expansion

Up to 9 interfaces for expansion needs
4K × 4 Display
2.5 Gbps Ethernet

Mind Dock Interfaces

Mind Dock features up to 9 additional I/O interfaces, making multi-display setups and SD card reading convenient. With built-in stereo speakers, it caters to your audio entertainment needs. The millisecond-speed fingerprint reader supports fingerprint recognition across all Mind devices, ensuring comprehensive privacy and security protection.



Mind Dock Specs



Audio

3.5mm Headphone Jack (Mic supported)
Stereo Speakers

Lights & Button

Indicator Light × 1 (Breathing for disconnection)
Volume Knob × 1
Fingerprint Reader × 1

Size & Weight

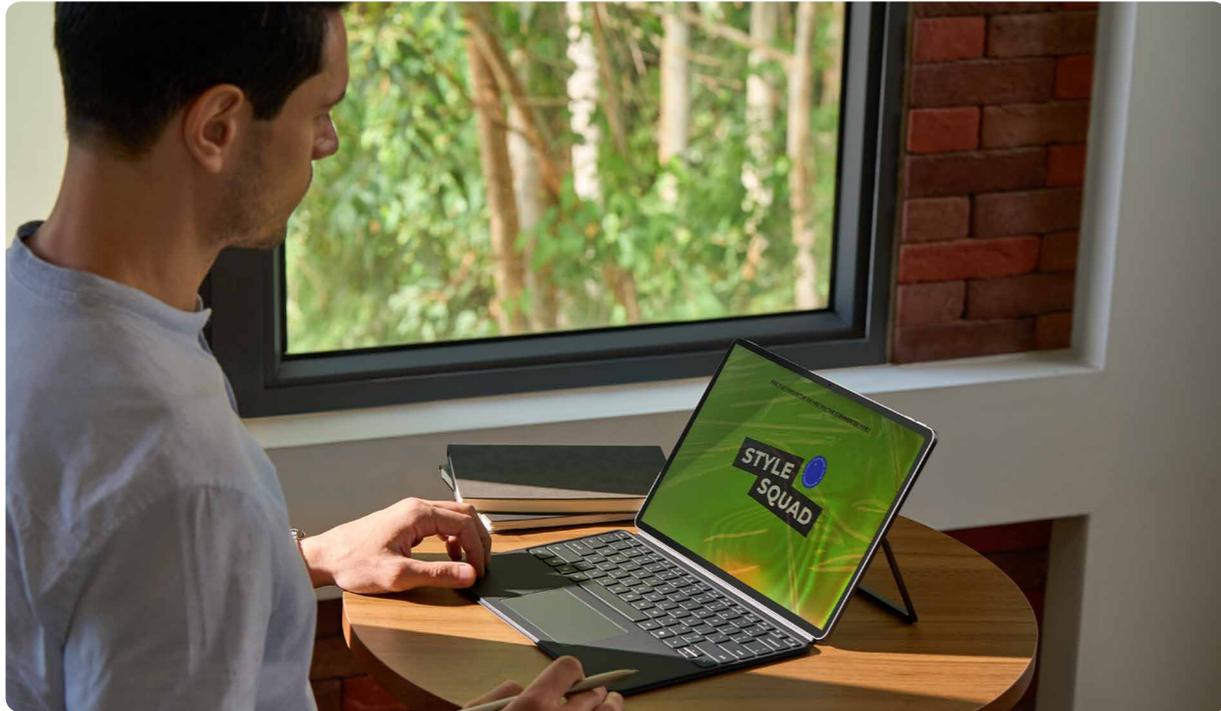
Size: 188 × 126 × 21.3 mm
Weight: 465 g

I/O Interfaces

USB-C (100W Max Charging) × 1
USB-A 3.2 Gen1 (5Gbps) × 3
HDMI 2.0 (18Gbps) × 2
Ethernet (2.5Gbps) × 1
SD 4.0 Card Reader (200MB/s) × 1

Mind xPlay

Portable Display



13-inch 2.8K HD Portable Display

In the meeting room, café, or during your commute, one-click relay ensures your windows and progress continue right where you left off. With less to carry and simple, tidy connections, stay organized and composed across multiple settings.

Mind xPlay Specs



Mind xPlay Portable Display

Screen

Size: 13 inches
Resolution: 2880 × 1920
Aspect Ratio: 3:2
Type: LCD
Refresh Rate: 60Hz
Color Gamut: 100% sRGB
Brightness: 500 nit

I/O Ports

USB-C Input Port × 1
USB-C Output Port × 1
Keyboard Port × 1
Mind Link Interface × 1

Buttons

Power Button
Volume Up Button
Volume Down Button

Battery & Power

Battery Capacity: 4150 mAh
Battery Energy: 47.94Wh
Power Input: 20V/5A (max)

Audio

Dual Microphones (pickup ≈ 2 m)
Dual Speakers (2W × 2)

Size & Weight

290.5 × 199.95 × 9.5 mm
820 g

Camera Resolution

2 MP

Adjustable Stand

0°–120°

Mind xPlay Keyboard

Compatibility

Designed for the Mind xPlay Portable Display

Connection

Magnetic attachment

Keyboard Layout

79 keys

Touchpad

High-precision touchpad (polling rate > 120 Hz)

Key Functions

Copilot Key:

One-press access to the Copilot AI assistant

Custom Key:

Switch work modes

Set combinations

Launch files and apps

Camera Resolution

2 MP

Size & Weight

293 × 215 × 6 mm

340 g

Mind Maker Kit

Develop Our AI Future Together



Powered by the cutting-edge Intel® Lunar Lake platform, the Mind Maker Kit is an indispensable tool for Creatives, AI Developers, and Makers alike. Boasting an impressive 115 TOPS of computing power, it delivers the performance needed to tackle complex AI and development tasks with ease. When paired with the Mind Graphics eGPU, it offers seamless high-performance GPU support for demanding workflows and AI model optimization. With the innovative Mind Link—Khadas' open-source expansion interface—the possibilities for enhancing the capabilities of your Mind Maker Kit with external modules and accessories are limitless.



Khadas is proud to be Intel's official AI PC development partner. The Mind Maker Kit comes pre-installed with the Intel AI PC Development Kit*, enabling developers to quickly and effortlessly install OpenVINO™ and other essential toolkits with just one click.

* For more information about the Intel AI PC Development Kit, please visit <https://www.intel.com/content/www/com/en/developer/topic-technology/ai-pc/dev-kit.html>.



Intel Lunar Lake Platform

Intel® Core™ Ultra 7 258V CPU (code-named Lunar Lake), delivering a combined computing power of 115 TOPS (CPU + GPU + NPU). Effortlessly handle real-time AI inference, large models, and complex tasks like object detection, NLP, and computer vision—all while meeting the demands of mobility, edge computing, and rapid prototyping.



Customizability & Expandability

Utilize Mind Graphics through the Mind Link interface for RTX 4060 Ti GPU (16GB) support. To make the most out of the Mind Link open-source interface, you can even build your own external modules and accessories.

Copilot + PC

Your everyday AI companion



Recall



Live Captions



Cocreator

Mind 2 AI Maker Kit Specs



Mind 2 AI Maker Kit

Ultra 7, 258V

Processor

Intel® Core™ Ultra 7 258V
4.8GHz turbo frequency
8 cores, 8 threads
12MB cache

AI Performance

Total computing power: 115 TOPS
Supported AI software frameworks: OpenVINO™, WindowsML, DirectML, ONNX RT, WebGPU, etc.

GPU

Intel Arc™ GPU, 140V
1.95GHz dynamic frequency

NPU

Intel® AI Boost
Up to 47 TOPS with sparsity support
Optimized for Windows Studio Effects

Memory

32GB LPDDR5X memory
Maximum frequency: 8533 MHz

Storage

1TB PCIe 4.0 M.2 2230 SSD
Maximum read speed: 5150 MB/s
Maximum write speed: 4900MB/s

I/O Ports

USB4 (40Gbps) × 2
HDMI 2.1 (48Gbps) × 1
USB-A 3.2 Gen2 (10Gbps) × 2

Display Output

HDMI 2.1: up to 8K (60Hz) or 4K (240Hz)
USB4: up to 8K (60Hz) or 4K (240Hz)

Mind Link

PCIe 5.0 x8 bandwidth, Max speed of 256 GT/s
Supports USB 3.2 Gen2, HDMI 2.1, 10A input power

Size & Weight

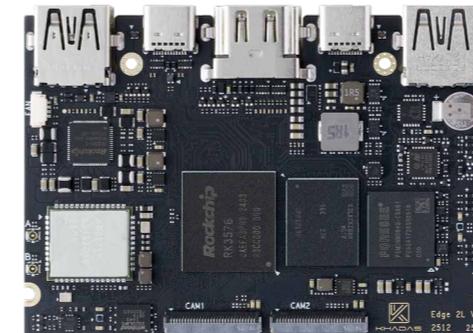
146 × 105 × 20 mm
435 g

Maker Series

SBCs Designed for Developers



Edge Series



Edge 2L

Rockchip RK3576 ARM PC with 6 Tops NPU & 8K Display

- CPU: 2.22GHz Quad-core Cortex-A72 + Quad-core Cortex-A53
- GPU: ARM Mali-G52 MC3
- NPU: Built-in 6 TOPS Performance NPU
- Decoder & Encoder: 8K@30fps, 4K@120fps for H.265/VP9/AVS2/AV1 and 4K@60fps for H.264 Decoder 4K@60fps for H.265/H.264 Encoder
- Memory: 4GB/8GB/16GB LPDDR5X, 64GB/128GB eMMC 5.1
- Wireless: 802.11ax/ac/n/g/b/a 2T2R Wi-Fi 6, Bluetooth 5.3

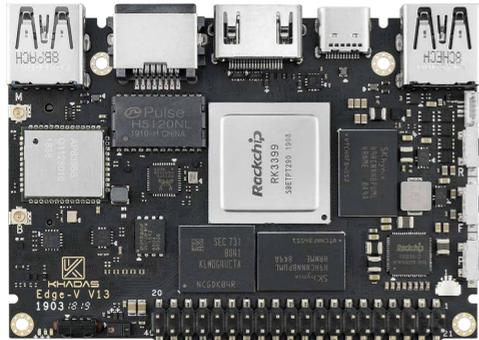
*The product above is only for showcase purposes the final product is subject to changes.



Edge2

Rockchip RK3588S

- CPU: 2.25GHz Quad Core ARM Cortex-A76 + 1.8GHz Quad Core Cortex-A55
 - GPU: ARM Mali-G610 MP4 GPU up to 1GHz
 - NPU: Build-in 6 TOPS Performance NPU
 - Decoder & Encoder: 4K@60fps AV1, 8K@60fps H.265 Decoding 8K@30fps H.264/H.265 Encoding HDR, HDR10, HLG Video Processing
 - Memory: 8GB/16GB LPDDR4X, 32GB/64GB eMMC
 - Wireless: 802.11a/b/g/n/ac/ax 2T2R MIMO Wi-Fi 6, Bluetooth 5.0
 - Full-featured Type-C Port, MIPI-CSI x3, up to 48MP, MIPI-DSI x2, up to 4K@60Hz
- <https://www.khadas.com/edge2>



Edge-V

Rockchip RK3399

- CPU: Dual Core Cortex A72 up to 1.8GHz + Quad Core Cortex A53 up to 1.5GHz
 - GPU: Mali T864 GPU
 - Decoder & Encoder: 4K VP9 and 4K 10bits H265/H264 Video Decoders, up to 60fps 1080P H.264 and VP8 Video Encoders
 - Memory: 2GB/4GB LPDDR4, 16GB/32GB/128GB eMMC
 - Wireless: 802.11a/b/g/n/ac 2T2R MIMO Wi-Fi 5, Bluetooth 5.0
 - MIPI CSI x 2, Full RK3399 I/O, Gyroscope, up to 3 Independent Displays, Li-Po Battery
- <https://www.khadas.com/edge-v>

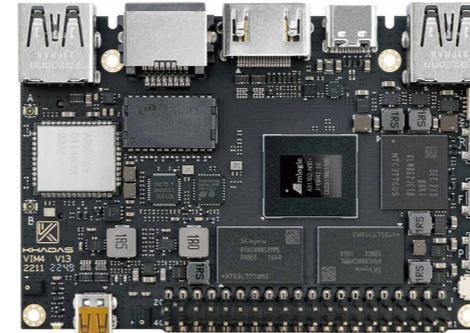


Edge

Rockchip RK3399

- CPU: Dual Core Cortex A72 up to 1.8GHz + Quad Core Cortex A53 up to 1.5GHz
 - GPU: Mali T864 GPU
 - Decoder & Encoder: 4K VP9 and 4K 10bits H265/H264 Video Decoders, up to 60fps 1080P H.264 and VP8 Video Encoders
 - Memory: up to 4GB LPDDR4, up to 128GB eMMC
 - Wireless: 802.11a/b/g/n/ac 2T2R MIMO Wi-Fi 5, Bluetooth 5.0
 - The Bare-Board Edge is Extremely Thin, Measuring at Just 5.7mm, Li-Po Battery
- <https://www.khadas.com/edge1>

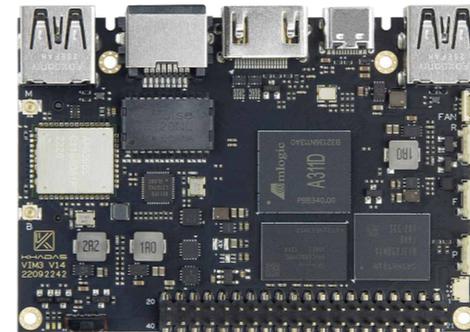
VIM Series



VIM4

Amlogic A311D2 Supports 4K UI and HDMI-in

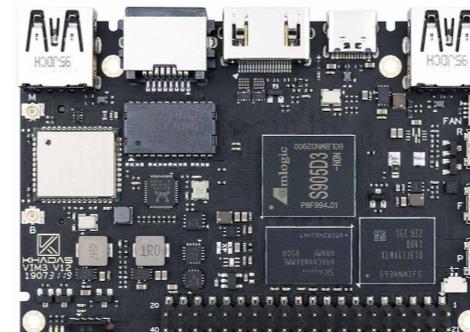
- CPU: 2.2GHz Quad core ARM Cortex-A73 and 2.0GHz Quad Core Cortex-A53 CPU
 - GPU: ARM Mali-G52 MP8(8EE) GPU up to 800MHz
 - NPU: Build-in 3.2 TOPS Performance
 - Decoder & Encoder: 8K 24fps Decoder & Low Latency 4K H.264/H.265 50fps Encoder Support, Multi-Video Decoder Support
 - Memory: 8GB LPDDR4/X RAM, 32GB eMMC
 - Wireless: 802.11a/b/g/n/ac/ax 2T2R MIMO Wi-Fi 6 Bluetooth 5.1
 - Gigabit Ethernet with WoL Support, Infrared, Quad Display Interface
- <https://www.khadas.com/vim4>



VIM3

Amlogic A311D

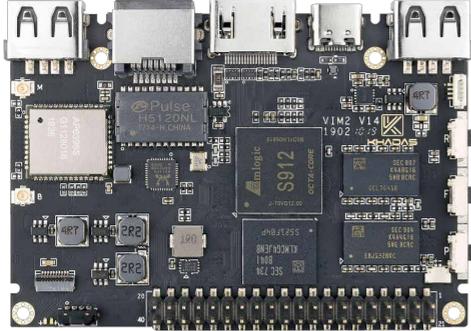
- CPU: 2.2GHz Quad core ARM Cortex-A73 and 1.8GHz Quad Core Cortex-A53
 - GPU: ARM G52 MP4 GPU up to 800MHz
 - NPU: Built-in 5 TOPS Performance NPU
 - Decoder & Encoder: HW UHD 4K H.265 75fps 10-bit Video Decoder & Low Latency 1080p H.265/H.264 60fps Encoder, Support Multi-Video Decoder
 - Memory: 2G/4GB LPDDR4/X RAM, 16/32GB eMMC
 - Wireless: 802.11a/b/g/n/ac 2T2R MIMO Wi-Fi 5, Bluetooth 5.0
 - Gigabit Ethernet with WoL support, Dual Camera Dual Display Support
- <https://www.khadas.com/vim3>



VIM3L

Amlogic S905D3

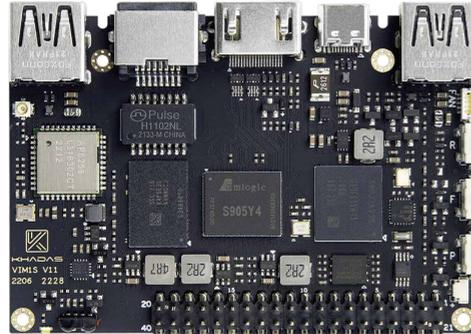
- CPU: 1.9GHz Quad Core ARM Cortex-A55
 - GPU: ARM G31 MP2 GPU up to 800MHz
 - NPU: Built-in 1.2 TOPS Performance
 - Decoder & Encoder: HW UHD 4K H.265 75fps 10-bit Video Decoder & Low Latency 1080p H.265/H.264 60fps Encoder, Support Multi-Video Decoder
 - Memory: 2GB LPDDR4/X RAM, 16GB eMMC
 - Wireless: 802.11a/b/g/n/ac 2T2R MIMO Wi-Fi 5, Bluetooth 5.0
 - Gigabit Ethernet with WoL support, Infrared, OS Freedom
- <https://www.khadas.com/vim3l>



VIM2

Amlogic S912

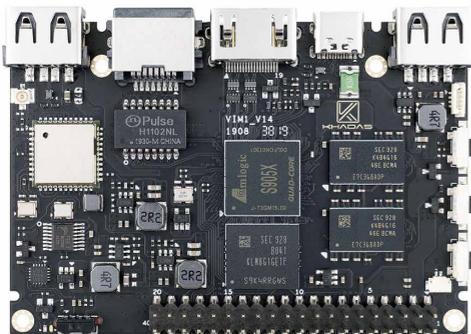
- CPU: 1.5 GHz 64Bit Octa Core ARM Cortex-A53
 - GPU: ARM Mali-T820MP3 GPU up to 750MHz
 - Decoder & Encoder: HW UHD H.265/VP9 60fps 10bit Video Decoder Low Latency 1080p@60fps H.265/VP9 Encoder
 - Memory: 2GB/3GB DDR4 RAM, 16GB/32GB/64GB eMMC
 - Wireless: 802.11a/b/g/n/ac 2T2R MIMO Wi-Fi 5, Bluetooth 5.0
 - USB Type-C for power, USB 2.0 OTG Support, HDMI 2.0a, Gigabit Ethernet with WoL
- <https://www.khadas.com/vim2>



VIM1S

Amlogic S905Y4

- CPU: 2.0GHz Quad Core Cortex-A35
 - GPU: ARM Mali-G31 MP2 GPU up to 850MHz
 - Decoder: 4K@60fps AV1, VP9, H.265 Decoding Support Multi-video Decoder
 - Memory: 2GB LPDDR4 RAM, 16GB eMMC
 - Wireless: 802.11 a/b/g/ac, Bluetooth 5.0
 - Megabit Ethernet, Infrared, Secondary Power Input
- <https://www.khadas.com/vim1s>



VIM1

Amlogic S905X

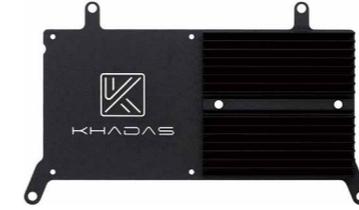
- CPU: 1.5GHz 64Bit Quad Core ARM Cortex-A53
 - GPU: ARM Mali-450 GPU up to 750MHz
 - Decoder & Encoder: HW UHD H.265/VP9 60fps 10bit Video Decoder, Low Latency 1080p@60fps H.265/VP9 Encoder
 - Memory: 2GB DDR3 RAM, 8GB/16GB eMMC
 - Wireless: 802.11a/b/g or 802.11b/g/n/ac Wi-Fi, Bluetooth 4.2
 - USB Type-C for Power, USB 2.0 OTG Support, HDMI 2.0b, Megabit Ethernet, Infrared
- <https://www.khadas.com/vim1>

Add-ons



Edge2's Active Cooling Kit

Edge Heatsink + 3705 Cooling Fan



VIM Heatsink

Improved heatsink for all VIM Series and Edge-V SBCs



Passive VIM Heatsink

Designed to work with VIM1/2/3/3L and Edge-V



3705 Cooling Fan

High airflow & Super quiet



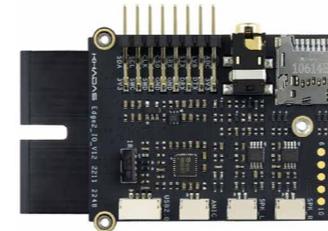
5G NR Module

Applicable to the M2X WWAN Extension board



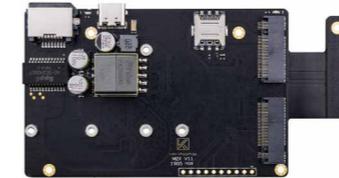
TS050 Touch Screen

Combined MIPI-DSI + TP FPC Cable



Edge2 IO Module

A GPIO break-out board for the Edge2



M2X Extension

Ultra-thin version of this extension board



M2X WWAN Extension

4G/5G LTE module to your VIM4



DIY Case

SBC Makeovers: The coolest DIY Case for coders



DIY Case 2

Armor up your Khasdas VIM Series SBCs



Edge2 Station

Expand more rich interfaces



IMX214 Camera

13 megapixel, with MIPI-CSI flexible FPC cable



IMX415 Camera

8 megapixel, auto focus, HDR support



OS08A10 Camera

8MP HDR Camera, with MIPI-CSI flexible FPC cable



65W GaN Quick Adapter

Compact body with USB-C power delivery



RTC Battery

Energizer CR1220 battery, with 3M adhesive pad



VIN to VIN Cable

Convey electrical power from M2X Extension Board to VIM3/3L SBCs

Tone Series

Upgrade Your Audio System for High-resolution Sound



Tone2 Pro

Mini Desktop DAC & Headphone Amplifier

XMOS **ESS** **AA** MQA **RCA**
XMOS XU216 ESS ES9038Q2M MQA Full Decode Balanced RCA



- ESS ES9038Q2M DAC, DSD512, PCM768 support
- 16-core XMOS XU216, full MQA decoding support
- USB-C x2 ports, one for data, one for linear power supplies
- Balanced RCA line-out backward-compatible with single-end cables
- 3.5mm/4.4mm headphone jacks
- Extreme performance: THD+N ~0.000126% (-118dB)
- Color: **Black / Red / Blue**



Tone2

Hi-Fi Mini Desktop DAC

XMOS **AA** MQA **DSD**
XMOS XU208 MQA Full Decode DSD 512 (Native) Bluetooth Extension



- ESS ES9038Q2M Chipsets - XMOS XU208
- High Performance - Up to 32bit 768KHz sampling rate, bit-perfect DSD512, and -118dB THD+N (line-out)
- Balanced RCA - Next-generation "balanced RCA line-out" with 3-pin output, sets a new interface standard for the Hi-Fi industry
- Support Bluetooth wireless expansion, compatible with Khasdas BT Magic Bluetooth module
- Color: **Black / Dream Blue**

* To learn more about Tone2 Pro, please visit <https://www.khasdas.com/tone2pro>.



BT Magic

External Bluetooth Module Wireless in Seconds

- Qualcomm QCC5125, Bluetooth 5.1
- Support SBC, AAC, aptX/aptX-LL/aptX-HD, LDAC Bluetooth audio format
- Hi-Res Bluetooth Audio
- RGB LED lights indicate the use status in different colors
- Stable transmission at a distance of 20 meters (data was obtained from Khadas laboratory tests; actual connection range depends on your environment)
- Compatibility: **Tone2 Pro/Tone2/Tone2 Maker Kit**
<https://www.khadas.com/product-page/bt-magic>



T2V Extension

Supports USB Data Transmission and Power Delivery

- USB data transmission
- Power delivery (Rated DC 3.3V)
- Stackable Structure, VIM + T2V + Tone2 Maker Kit
- Dimensions: 78.55 mm (l) × 37.76 mm (w) × 0.80mm (h) /2.90 mm (with components)
- Compatibility: **VIM3/VIM3L/VIM4 to Tone2 Maker Kit**
<https://www.khadas.com/product-page/t2v-extension>



Balanced RCA Connectors

Customized 3-pin Balanced RCA Jack & Plug

- Backwards-compatible with standard RCA cables and plugs
- Incorporates 3-pins, additional pin for inverse audio signal
- Compact size, allows for integration into mobile form-factors
- Patent Number: CN211265767U
- Color: **White/Red/Orange**
<https://www.khadas.com/balanced-rca>



Bal-RCA to XLR-3 Cable

Applicable to Tone Series Product

- 0.2 or 1.0 meter in length
- 6N OCC single crystal copper
- PVC insulation for each conductor
- Oxygen-Free Copper, Braided
- Neutrik XLR-3 Male (NC3MXX-HE, Gold Contacts)
- Khadas Balanced RCA Plug (KRP-B01)
- Compatibility: **Tone2 Pro/Tone2/Tone2 Maker Kit**
<https://www.khadas.com/balanced-rca>

Tea Series

Portable Magnetic DAC & Headphone Amplifier



Tea Pro

Ultra-Slim Magnetic DAC & Headphone Amplifier



- Multi-device compatible: iOS, Android, iPadOS, Windows and macOS
- Bit-perfect audio via USB-C wired connection
- High-resolution Bluetooth audio with LDAC, aptX HD and aptX Adaptive
- Inbuilt microphone for making and receiving calls over Bluetooth
- 2100mAh battery for 11 hours of continuous music over Bluetooth
- 0.95-inch AMOLED display with 4 function buttons, providing clear and user-friendly UI/UX
- DSD 512, PCM 768kHz, and lossless audio from your smartphone
- THD+N (1 kHz, No load): 0.000126% (-118dB)

* To learn more about Tea Pro, please visit <https://www.khadas.com/tea-pro>.

MFi Licensed Accessories Search

Search for accessories that have completed MFi certification. Once an accessory has completed MFi certification requirements and has either been opted in by the accessory manufacturer or reported to Apple as sold/distributed, it will be searchable on our MFi Licensed Accessories page.

Accessories that use any of the following technologies or components will be searchable here: AirPlay audio, DockKit, Find My network, HomeKit, iPhone/iPad/iPod Accessory Protocol (iAP2), Lightning connector, MFi charging component, and MFi headset component.

Search parameter: Brand khadas Search

4 results for khadas

| Brand | Accessory Name | Model | Technology | Category | UPC/EAN |
|--------|----------------|------------|--|----------|--------------|
| KHADAS | Tea Pro | KTEA-P-002 | iPhone/iPad/iPod Accessory Protocol (iAP) | Other | 697539227503 |
| KHADAS | cable | A1032 | Lightning connector | Other | 697539227503 |
| KHADAS | Tea Pro | K1017 | iPhone/iPad/iPod Accessory Protocol (iAP), Lightning connector | Other | 697539227503 |

MFi Certification



Search for accessories that have completed MFi certification. Once an accessory has completed MFi certification requirements and is reported to Apple as sold or distributed, it will be searchable in our public database of authorized Lightning, headset, charging, iAP-enabled, and Find My network-enabled accessories.

Apple MFi Certification: <https://mfi.apple.com/account/accessory-search>



Tea

Portable Magnetic DAC & Headphone Amplifier



- Compatible with Apple MagSafe (iPhone 12 or newer)
- Bit-perfect audio via USB-C wired connection
- High-resolution Bluetooth audio with LDAC and aptX HD
- Inbuilt microphone for making and receiving calls over Bluetooth
- MQA renderer, DSD256, PCM384, and lossless audio from your smartphone
- 1160mAh lithium polymer battery for 8 hours of continuous music
- THD+N: -109dB • Color: **Blue / Gray**

* To learn more about Tea, please visit <https://www.khadas.com/tea>.



10 cm USB-C Cable

Specifically designed for Khadas Music Devices

- 10 cm in length
- Both cables support bit-perfect streaming of digital audio data
- Compatibility: **Khadas Tea Series** (including Tea, Tea Pro), **Khadas Tone Series** (including Tone2, Tone2 Pro)
- Note: Only the 10 cm USB-C to C cable supports USB-C power delivery, the 10 cm USB-C to Lightning audio cable does not.

<https://www.khadas.com/product-page/khadas-tea-10cm-usb-c-audio-cable>



USB-C to Lightning Cable

Supporting audio-data transmission

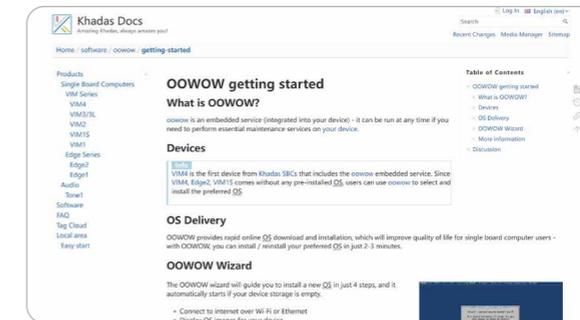
- 1 meter in length
- Smooth, white exterior
- Sample rate up to 24bit 96KHz
- Apple MFi authorized C78-USBH lightning connector
- Provides audio-data link between Tone2 Pro and iPhone
- Compatibility: **Tone2 Pro/Tea Pro/Tea/iPhone, iPads (with Lightning)**

<https://www.khadas.com/product-page/usb-c-to-lightning-cable>

Khadas Software

Khadas OOWOW

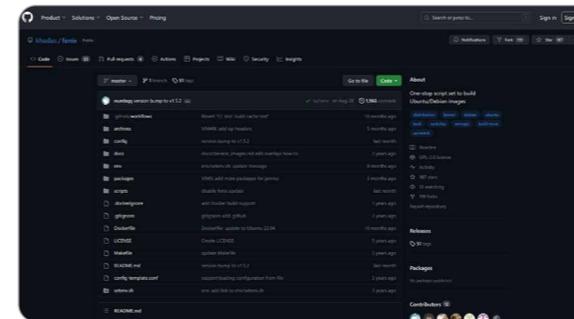
OOWOW is an embedded system pre-installed on the KHADAS SBCs. Through OOWOW, users can quickly download and install their favorite OSes online within 2-3 minutes, and perform all maintenance functions directly from the SBC device itself. OOWOW provides SBCs with a universal operating system and device configuration options right out of the box.



* To learn more about OOWOW, please visit <https://docs.khadas.com/software/oowow/start>.

Khadas Fenix

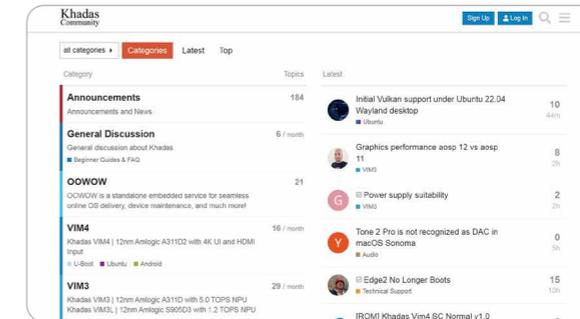
Khadas Fenix is a one-stop script library for building Ubuntu/Debian systems. Users can quickly build their own systems based on Fenix. Through Khadas Fenix, users can customize their OS development environment, and learn how to build their own systems.



* To learn more about Fenix, please visit <https://github.com/khadas/fenix>.

Khadas Community

We have a vibrant community, including a forum (forum.khadas.com), social media, GitHub and other platforms. Here, you can exchange experiences, share projects, ask questions, get positive feedback, and collaborate with developers and enthusiasts around the world.



Mind Reviews

ETA PRIME



This Next-Gen Modular Mini PC Gets A Major Edge With An RTX GPU Upgrade Module

Linus Tech Tips



Everyone Who Tried This Has FAILED – Khadas Mind Modular PC

XDA-Developers



Khadas Mind review: Redefining the mini PC

Created by Ella



The Most Interesting Mini PC! | Khadas Mind Modular Computer

Our Partners

Khadas focuses on generating long-term value. We cherish every industry partner and every supplier. To ensure that all our suppliers have reasonable profit margins, we place more attention on our supplier's quality monitoring system and service quality than on price.



Our Team

Khadas is made up of a diverse team spanning the globe, with members from countries like China, Singapore, Russia, and beyond. What brings us together is our shared vision of crafting extraordinary products. This shared passion unites us, empowering us to overcome challenges and thrive even in the face of adversity. This is the spirit of the Khadas family!

