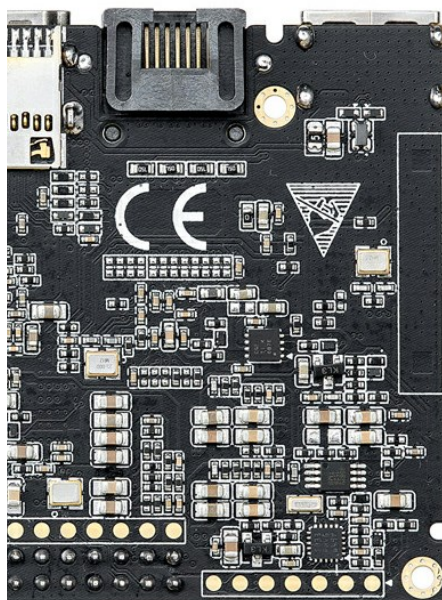
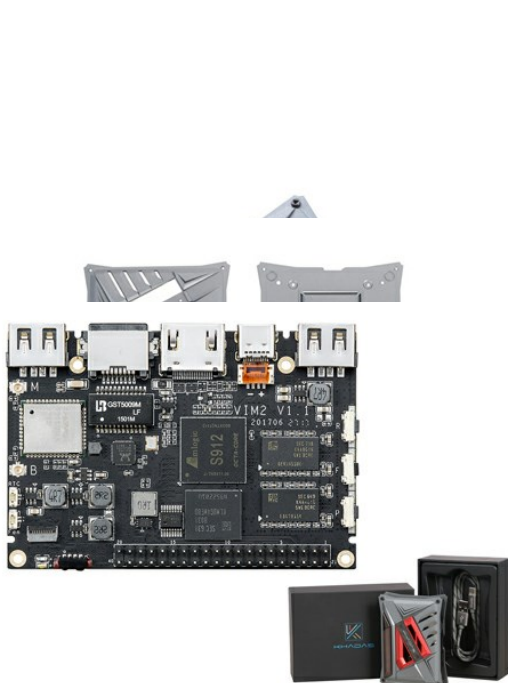


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Khadas VIM2 Max Open Source SBC/TV Box 3GB+64GB Wi-Fi Gigabit LAN with WOL Multi-System-Compatibility 4K

SKU 102110198



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Description

Professional | Powerful | Ultimate | Superior | Awesome user experience

Khadas VIM2 is the first and only Amlogic S912 based hobbyist development board on the market, which makes it interesting by itself, but Khadas also added some interesting features such as an SPI flash for network boot, Wake-on-LAN support, and more.

Features

1.5GHz 64-bit Octa-Core CPU, T820MP3 GPU, and up to 3GB DDR4 & 64GB eMMC.

- Unlimited connectivity

2X2 MIMO 802.11ac Wi-Fi, 4.x Bluetooth, Gbit Lan and a USB-C(2.0) port.

- Advanced Specs

WOL(Wake on Lan) and RSDb Wi-Fi will improve the user experience steps forward.

- Maker friendly

Equipped with 40-pin GPIO header, cooling fan slot and a programmable MCU.

- Multimedia experts

HDMI2.0a and a powerful VPU with 10-bit 4K H.265/VP9@60fps playback support.

- Tiny form factor

Thin and light with a dimensions of credit card.

Highlights

- Android 7.1 + Ubuntu + Buildroot + Docker Multi-OS

Pre-installed with Android, you can also install Ubuntu, Buidroot, Docker OS, it will bring you a surprise of using experience.

- Amlogic S912 Octa-core CPU

Rapid and stable performance can give you a high-speed feedback and smooth response.

- DDR4 3GB RAM, eMMC 64GB ROM

It is configured with DDR4 3GB RAM, and eMMC 64GB ROM, thus it can provide enough room and freedom to install Apps without worrying about running out of space.

- Bluetooth 4.2 Connectivity

Easy pairing with most Bluetooth-enabled devices.

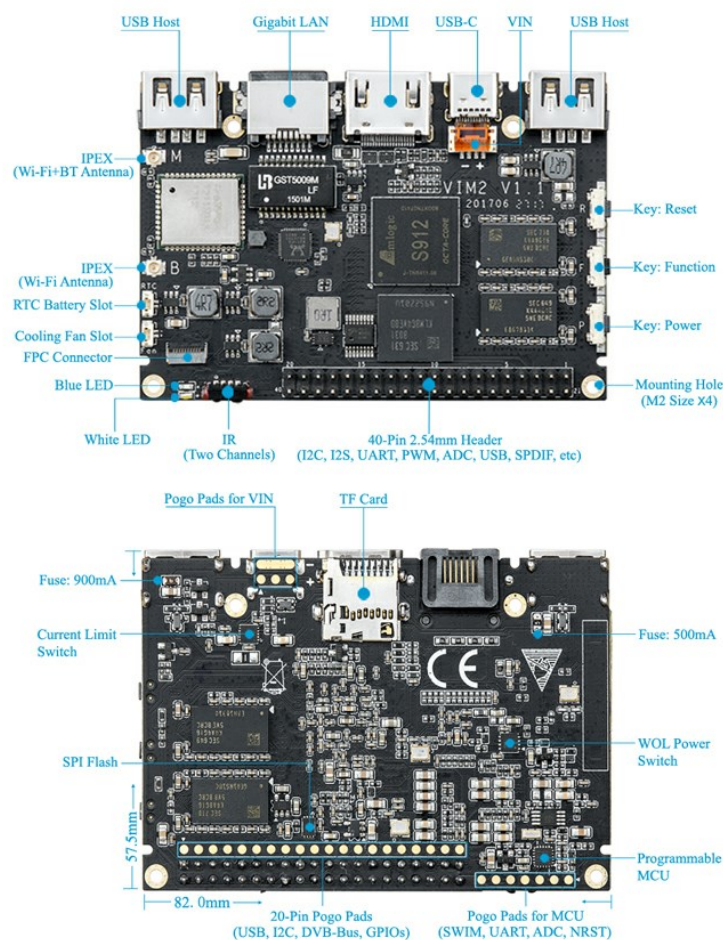
- Gigabit LAN

Gigabit LAN can improve the internet speed and the performance to a great extent.

- Multiple Use Case

You can turn Khadas VIM2 Max Development Board into SBC, Clusters, Digital Signage, Robotics, IoT, TV Box.

Interface



Open Source & Community



Open Source

Full open source code, including U-Boot, Mainline Linux and Android. All source code are hosted on Khadas Github with an active community of developers contributing to it.



Hardware Documents

All the necessary hardware documents, including schematics, PCB drawings and PCB 2D files are available for download. And makers can easily customize or expand according to their needs.



Community

Khadas community is built for users and developers to discuss, communicate and learn from each other. This is also a way for us to gather feedback from our users.



Service

If technical problems are encountered during the development process, we can provide the necessary technical support.

Supported Software



Ubuntu

Ubuntu-16.04 and later version



Docker

A Better Way to Build Apps



Buildroot

Making Embedded Linux Easy



Android

Android 7.1 with Kodi supported

Superior Technical Specs



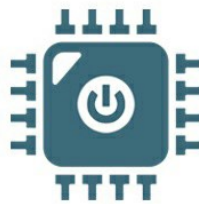
RSDB

Real Simultaneous Dual Band, VIM2 and other devices can transmit and receive data over two bands at the same time.



WOL

Power on or wake up VIM2 remotely over Lan through Apps or webpage.



MCU

Smart power management, EEPROM for customization, and setup default boot media (SPI Flash or EMMC).



UEFI

UEFI provides a standard environment for booting an operating system and running pre-boot applications.

Technical Details

Dimensions 82mm x 57.50mm x 11.50mm

Weight G.W 860g N.W 710g

Battery Exclude

SoC Amlogic S912; 1.5 GHz 64Bit Octa Core ARM Cortex-A53; 750MHz ARM Mali-T820MP3 GPU; HW UHD H.265/VP9 60fps 10bit video decoder; HDR10 and HLG processing;

MCU STM8S003 with Programmable EEPROM

SPI Flash 2MB

DDR4 3GB

EMMC	64GB
Wi-Fi	AP6359SA, 2X2 MIMO with RSDB
Bluetooth	V4.2
LAN	10/100 / 1000M
WOL	Wake up & on Lan
IR Receiver	2 Channels
HDMI 2.0a	Type-A Female, up to 4K@60Hz
HDMI CEC	Yes
TF Card	Molex Slot
USB2.0 HOST	x2 (900mA & 500mA Load)
USB Type-C	USB2.0 OTG & DC IN
Wide Input Voltage	Range from 5V to 9V, Recommend 5.0V
Current Limit Switch	Programmable, 3.0A as default (up to 4.0A)
VIN (Extra Power IN)	4-Pins, 1.25mm Pitch Header
RTC & Battery Header	0.8mm Pitch Header
Cooling Fan Header	3 Levels Speed, with a 0.8mm Pitch Header
40-Pins I/O Header	2.54mm, USB, I2C, I2S, SPDIF, UART, PWM, ADC, ISO7816
FPC Connector	10-Pins, 0.5mm Pitch, with I2C, I/Os
Pogo Pads Array	USB, I2C, DVB-Bus, I/Os
Pogo Pads MCU	SWIM, UART, ADC, NRST
Pogo Pads for VIN	System Power Input
Buttons	x3 (Power / Func / Reset)
LEDs	Blue LED x1, White LED x1
Mounting Holes	Size M2 x 4
Android	Nougat (7.1)
Ubuntu	Ubuntu 16.04+
UEFI	Developing

Part List

Khadas VIM2 Max Open Source TV Box with case	1
Type-C USB cable	1

ECCN/HTS

ECCN5A002.a.1

Documents

- VIM2 Specifications
- VIM2 Schematic
- VIM2 PCB Drawing
- VIM2 2D Drawing
- Amlogic S912 Datasheet
- Getting started
- How to Boot Into Upgrade Mode
- Install LibreELEC
- GPIO Pinout
- Install Toolchains
- Setup Serial Debugging Tool
- How To Access GPIO
- U-boot Usage Guidance
- Build Android Source Code
- How To Use WOL
- Build Ubuntu/Debian Image
- Install TensorFlow
- Build Fuchsia
- MCU Development
- Firmware for Android
- Firmware for Ubuntu
- Firmware for LibreELEC
- Firmware for DualOS
- Firmware for Uboot
- Firmware from 3rd Party
- Community
- Open Source
- Technical Documentation

Questions and Answers



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