VIM1S Specifications

SoC	Amlogic S905Y4 2.0GHz Quad Core Cortex-A35 CPU ARM Mali-G31 MP2 GPU up to 850MHz 4K@60fps AV1, VP9, H.265 Decoding Support Multi-video Decoding up to 4x 1080p@60fps HDR10, HDR10+, HLG HDR Video Processing
Coprocessor [1]	STM8S003
SPI Flash	32MB
RAM	2GB LPDDR4 1176MHz, 32-bit
eMMC 5.0	16GB
Wi-Fi	Ampak AP6256 IEEE 802.11 ac/a/b/g/n
Bluetooth	Bluetooth 5.0
LAN	10/100M
TF Card	Molex Slot, UHS-I Speed Class
USB HOST	x2 USB 2.0, 500mA Current Limit
USB-C	USB 2.0 OTG, 5.0V DC Input
VIN Connector	Secondary Power Input, 5.0V
HDMI	Type-A Female HDMI 2.1 with 4Kx2K@60fps Max Resolution Output 3D, Dynamic HDR(with EMP), CEC and HDCP 2.2/2.3
RTC Battery Header	0.8mm Pitch Header
Cooling Fan Header	4-Pin 0.8mm Pitch Header PWM Speed Control
IR Receiver	Dual Channels
LEDs	White x1 + Red x1
40-Pin Header	CPU: USB, I2C, I2S, SPDIF, UART, PWM, ADC, GPIO MCU: SWIM, NRST
FPC Connector	30-Pin 1.0mm, USB, I2S, UART, GPIO
Buttons	x3 (Reset / Func / Power)
XPWR Pads	For External Power Button
Mounting Holes	Size M2 x4
Board Dimensions	82.0 x 58.0 x 13.0 mm
Board Weight	27g
Bootloader	U-Boot
Linux Kernel	Linux 5.4
Linux Distros	Ubuntu 22.04
Android	Android 11
Khadas Only	Khadas TST [2]
	Khadas KBI
	OOWOW [3]
	Fenix [4]
Compliances	CE, FCC, TELEC, RoHS

[1] MCU: power management, and boot media(SPI Flash or eMMC) setup.

[2] The Khadas TST feature enables developers to enter upgrade mode easily: simply press the function key 3 times within 2 seconds, and it works even if the boot loader is damaged.

[3] OOWOW: a standalone embedded service for seamless online OS delivery, device maintenance, and much more!

[4] Fenix Script: one-click script for building of Linux Distributions.