



Edge2 Specifications

Model	Basic	Pro
SoC	Rockchip RK3588S2 2.25GHz Quad Core ARM Cortex-A76 + 1.8GHz Quad Core Cortex-A55 CPU ARM Mali-G610 MC4 GPU up to 700MHz Build-in 6 TOPS Performance NPU 4K@60fps AV1, 8K@60fps H.265 Decoding 8K@30fps H.264/H.265 Encoding HDR, HDR10, HLG Video Processing	
Coprocessor [1]	STM32G031K6	
SPI Flash	32MB	
RAM	8GB LPDDR4X 2112MHz, 64-bit	16GB LPDDR4X 2112MHz, 64-bit
eMMC 5.1	32GB	64GB
Wi-Fi	Ampak AP6275P 2T2R Wi-Fi 6, IEEE 802.11 ax/ac/a/b/g/n	
Bluetooth	Bluetooth 5.0	
USB HOST	x1 USB 3.1 + x1 USB 2.0	
USB-C	x1 PD (Power Deliver) Only x1 USB 3.1 + PD + DP 1.4, up to 4K@60fps [2]	
HDMI	Type-A Female, 8K@60fps HDMI2.1, Dynamic HDR, CEC, DSC 1.2a and HDCP 2.3	
MIPI Display	x1 30-pin 0.5mm FPC Connector 4-lane MIPI-DSI Interface, Resolution up to 4K@60Hz	
Touch Display	x1 40-pin 0.5mm FPC Connector 4-lane MIPI-DSI Interface, Resolution up to 4K@60Hz I2C and GPIO for Touch Panel	
Cameras	x3 30-pin 0.5mm FPC Connectors 4-lane MIPI-CSI Interface per Connector ISP Resolution up to 48MP	
Expand IO	x2 30-pin 0.5mm FPC Connector CPU: I2C, UART, SPI, SDMMC, I2S, ADC, PWM, USB MCU: SWDIO, SWCLK, UART	
Pogo Pads	7-pin, USB, UART, 5V	
Cooling Fan Header	4-pin 0.8mm Header PWM Speed Control	
DMIC	Stereo Digital Microphones	
Sensor	KXTJ3-1057 Tri-axis Digital Accelerometer	
RTC Battery	3V 3mAh, Lithium Rechargeable Battery	

LEDs	x2 RGB LED
Buttons	x3 (Reset / Func / Power)
XPWR Pads	For External Power Button
Mounting Holes	Size M2 x4
Board Dimensions	82.0 x 57.5 x 5.7 mm
Board Weight	25g
Bootloader	U-Boot
Linux Kernel	Linux 5.10
Linux Distros	Ubuntu 22.04
Android	Android 12
Khadash Only	Khadash TST [3]
	Khadash KBI
	OOWOW [4]
	Fenix [5]
Compliances	RoHS, CE, FCC, TELEC, KC

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

[2] The official ROM is configured for 4K@60fps, however developers can change this to 8K@30fps by modifying the configuration files.

[3] 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.

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

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