PSRAM Camera Module with ESP32 WROVER (OV2640)

Description

M5Camera is a development board for image recognition. It features an ESP32(4M Flash + 520K RAM) chip and 2-Megapixel carmera(OV2640).**M5Camera** offers plenty of storage, with an extra 4 Mbyte PSRAM. It also supports image transmission via Wi-Fi and debuging through USB Type-C port.

The hardware comes preloaded software, programmed by ESP-IDF. It is an application to run Wi-Fi camera. The output image is size 600*800, since it's 2-Maga camera, you sure can optimize the software to output the maximum size of photos.

what this software can do?

- Power the board via USB type-C or GROVE
- Use your phone to Wi-Fi scan an AP name start with 'm5stack-' and click to connect this AP.
- Open up web browser on your phone and visit 192.168.4.1
- Then here comes the picture. Video is about 5-6 frames per senconds. not super fast.

Product Features

- CP2104 USB-to-TTL converter
- ESP32-WROVER (PCB Antenna)
- WIFI image transmission
- OV2640 sensor

Include

- 1x M5Camera
- 4x LEGO block
- 1x Type-C USB(20cm)

Specification

Resources	Parameter
Flash	4M
RAM	4MB
Image Sensor	OV2640
Maximum resolution	200w pixel
Output format	YUV(422/420)/YCbCr422,RGB565/555,8-bit compressed data,8-/10-bit Raw RGB data
Maximum image transmission rate	UXGA/SXGA: 15fps, SVGA: 30fps, CIF: 60fps
FOV	65°
CCD Size	1/4 inch
net weight	17g
Gross weight	41g
Product Size	40*48*11mm

Package Size   75*45*30mm