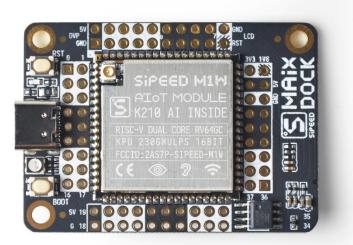


Sipeed MaixDock Datasheet

v1.0



Key Features:

- CPU : RISC-V Dual Core 64bit, with FPU, 400Mhz-500Mhz, Neural network processor
- Image Recognition: QVGA@60FPS/VGA@30FPS
- MEMS Microphone: MSM261S4030H0
- Sensitivity: -26(dB,dBFS @1kHz 1Pa)
- Audio: DAC+PA(Support 2x3W Speaker)
- Micro SD slot(TF card)
- Download circuit: USB Type-C cable to complete the download
- 24P DVP and 24P MCU LCD connector
- Wireless Function(Optional): Support 2.4G 802.11.b/g/n



UPDATE	
V1.0	2019/7/9 Published original document

	SPECIFICATION
Master module	Sipeed M1 or M1W AIOT module(For details, please refer to the following specification: Sipeed M1 Datasheet V1.11.pdf 偶 or Sipeed M1W Datasheet V1.11.pdf)
GPIO interface	All GPIOs connected to DIP holes
Micro SD card (TF card) slot	Small size card slot
Onboard MEMS microphone	MSM261S4030H0 is an omnidirectional, bottom-ported, I2S digital output MEMS microphone with excellent performance and reliability.
DVP Camera interface	24P 0.5mm FPC connector
LCD interface	24P 0.5mm FPC connector(8 bit MCU LCD)
Audio	TM8211 DAC + PAM8403 PA(Support 2x3W Speaker)
Button	Boot button and Reset button

SOFTWARE FEATURES

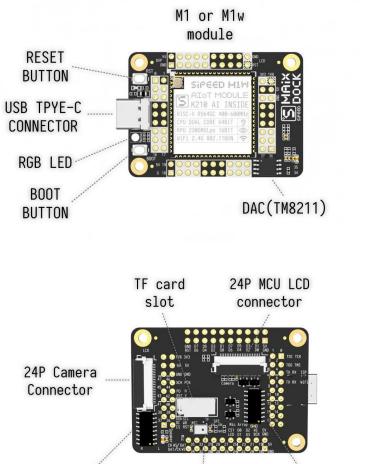
FreeRtos & Standard SDK	Support FreeRtos and Standrad development kit.
MicroPython Support	Support MicroPython on M1
Machine vision	Machine vision based on convolutional neural network
Machine hearing	High performance microphone array processor

HARDWARE FEATURES	
Supply voltage of external power supply	4.8V ~ 5.2V
Supply current of external power supply	>600mA
Temperature rise	<30K
Range of working temperature	-30℃ ~ 85℃



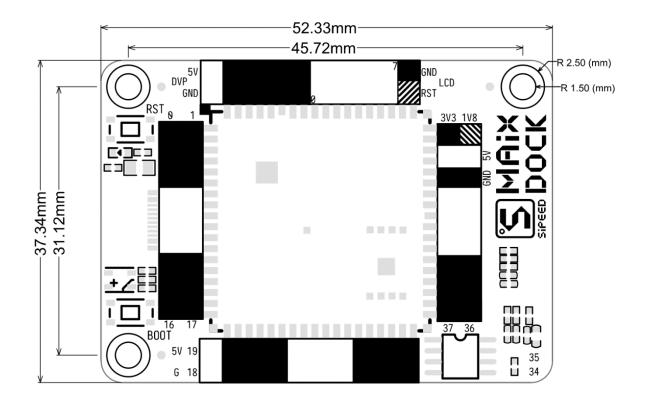
RF FEATURES (M1w-Dock Only)	
MCU : ESP8285	Tensilica L106 32-bit MCU
Wireless Standard	802.11 b/g/n
Frequency Range	2400Mhz - 2483.5Mhz
TX Power (Conduction test)	802.11.b : +15dBm(±2dBm) 802.11.g : +10dBm(±2dBm)(54Mbps) 802.11.n : +10dBm(±2dBm) (65Mbps)
Antenna Connector	IPEX 3.0x3.0mm
Wi-Fi mode	Station/SoftAP/SoftAP+Station
The connection between K210 and ESP8285	Please read the schema of M1w_V1.11 for the specific connection.(dl.sipeed.com)

OVERVIEW





SIZE	
Length	52.33mm
Width	37.34mm





RESOURCES	
Official Website	www.sipeed.com
Github	https://github.com/Lichee-Pi
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
Sipeed Model Store	https://maixhub.com/
SDK Reference	dl.sipeed.com/MAIX/SDK
HDK Reference	dl.sipeed.com/MAIX/HDK
E-mail (Technical Support)	support@sipeed.com
Telegram Link	https://t.me/sipeed
QQ Group	878189804



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