Sipeed Maix-Dock Specifications v1.0

Characteristic:

• CPU : RISC-V Dual Core 64bit, with FPU，400Mhz standard Frequence(Can be overclocked)

• Image Identification: QVGA@60FPS/VGA@30FPS

• MEMS microphone : MSM261S4030H0
Seneitivity : -26(dB,dBFS @1kHz 1Pa)

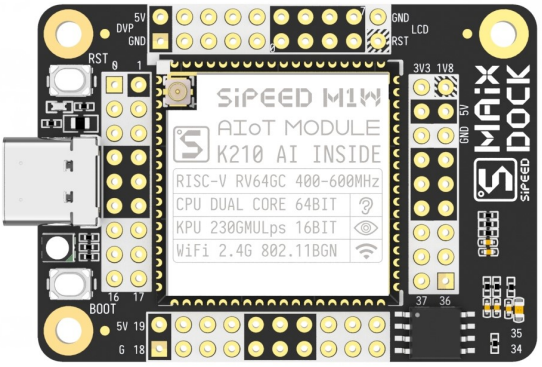
• Audio: DAC+PA(Support 2x3W Speaker)

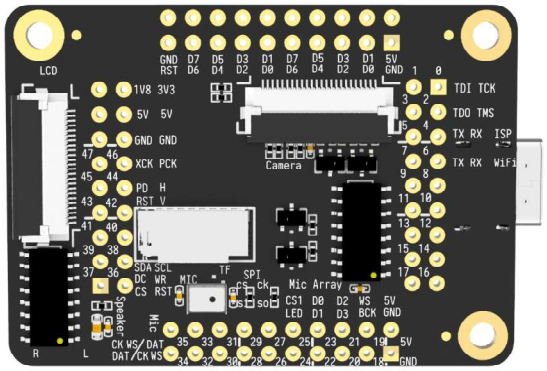
• Micro SD card slot(TF card)

• Download circuit: Just connect the USB typeC cable to complete the download

• 24P DVP and 24P MCU LCD connector

• Wireless Function(Optional): Support 2.4G 802.11.b/g/n





Version 1.0
Sipeed

www.sipeed.com

Update record	
V1.0	Edited on April 19, 2019 ; Original document

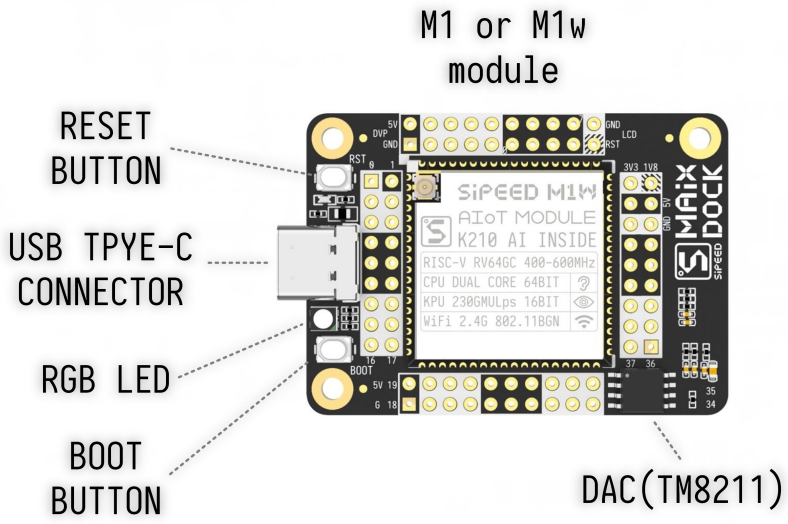
FEATURES OVERVIEW	
Master module	Sipeed M1 or M1W AIOT module(For details, please refer to the following specification:Sipeed Maix-1 Specifications_EN V1.0.pdf)
GPIO interface	All GPIOs connected to DIP holes
Micro SD card（TF card） slot	Small size card slot
Onboard MEMS microphone	MSM261S4030H0 is an omnidirectional, Bottom-ported, I 2 S digital output MEMS Microphone. It has high 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

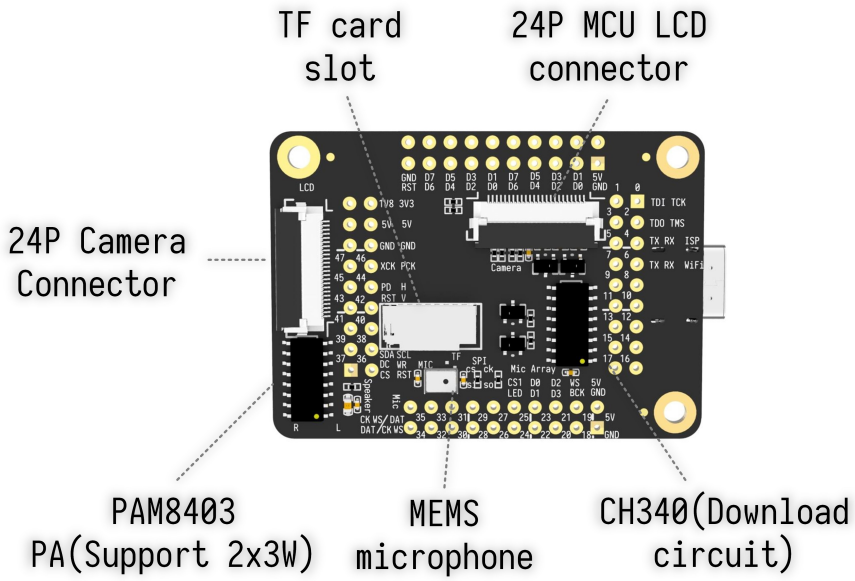
SOFTWARE FEATURES	
FreeRtos & Standard SDK	Support FreeRtos and Standrad development kit.
MicroPython Support	Support MicroPython on M1
Machine vision	Machine vision based on convolutional neural network
Machine hearing	High performance microphone array processor

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℃

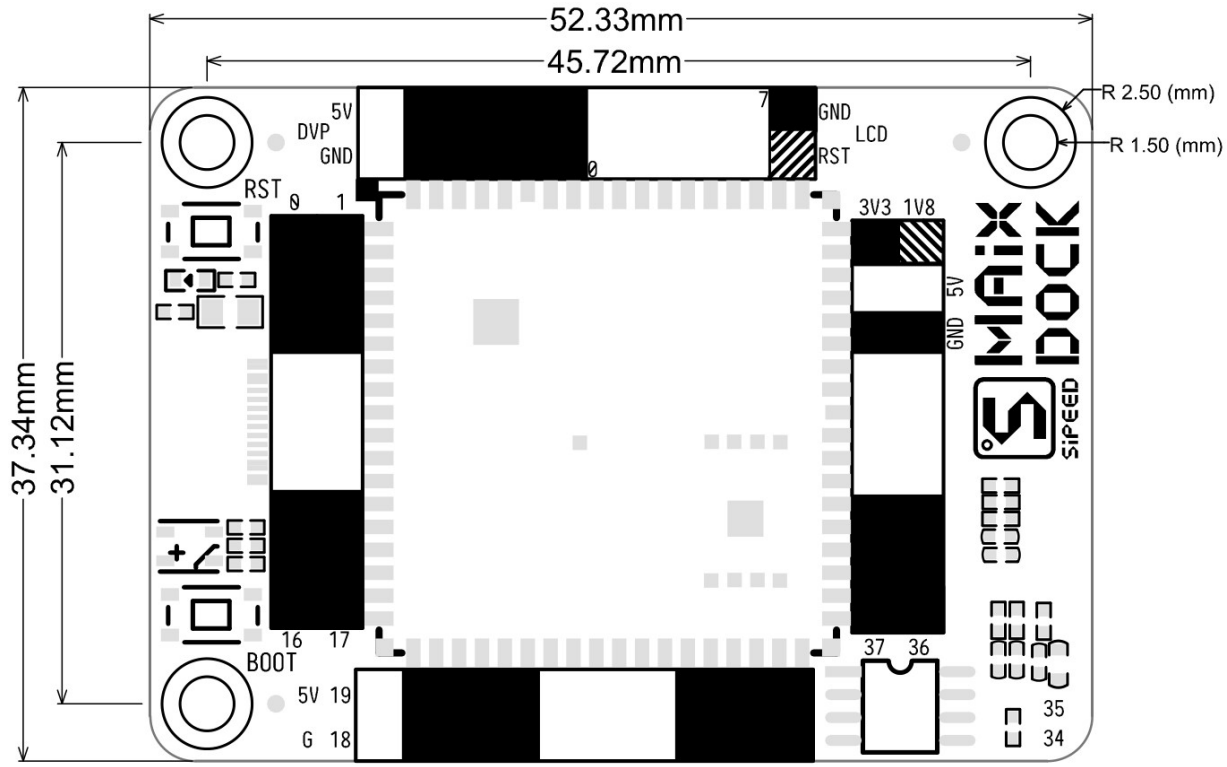
RF FEATURES	
MCU : ESP8285	Tensilica L106 32-bit MCU
Wireless Standard	802.11 b/g/n
Frequency Range	2400Mhz - 2483.5Mhz
TX Power(Conduction test)	802.11.b : +15dBm 802.11.g : +10dBm(54Mbps) 802.11.n : +10dBm (65Mbps)
Antenna Connector	IPEX 3.0x3.0mm
Wi-Fi mode	Station/SoftAP/SoftAP+Station

Overall description





Size information



Resource	
Website	www.sipeed.com
Github	https://github.com/Lichee-Pi
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
SDK Relevant information	dl.sipeed.com/MAIX/SDK
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