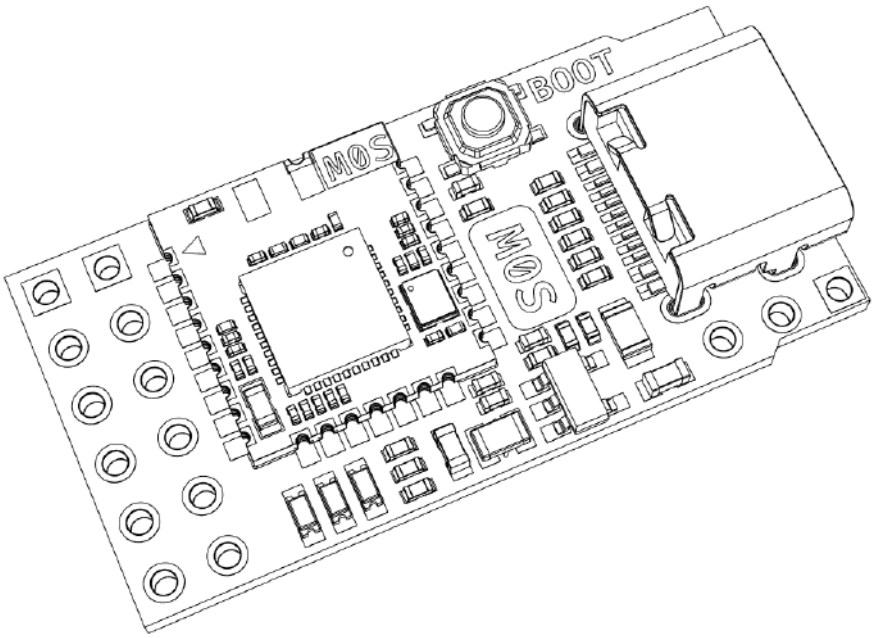
Sipeed M0S Dock DataSheet

V1.0



Revision History

Date	Revision	Description
2023-01-12	1.0	Initial Release

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Contents

Overview

For secondary development, the M0S Dock development board was designed based on the M0S, with some of the module's IO pins pushed out to the row of pins.

1 Key Specifications

Parameter	Description

Parameter	Description
OnBoard Components	USB Type-C Connector
	1 x Boot Key（For USB Download）
	3 x LEDs
PCBA Size	15.24*30.48*1.8mm

2 Technical Specifications

(Scenario: TA = 25°C, object reflectivity 90% if not otherwise specified)

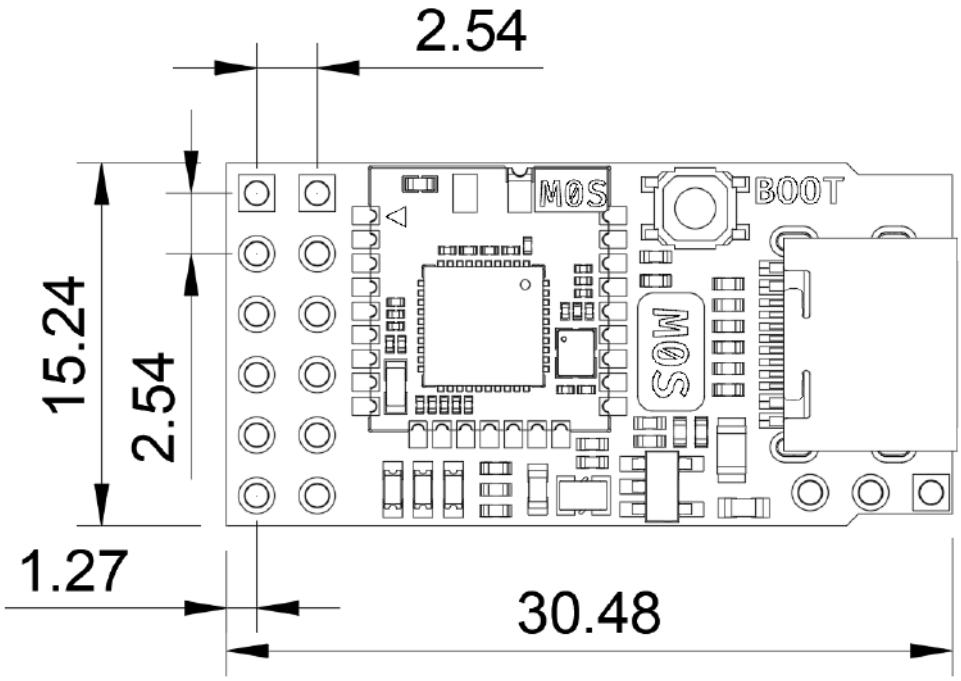
Parameter	Description	Min	Typ	Max	Unit
Module Supply Voltage		4.8	5	5.2	V
Supply Electric Current					A
Operating Electric Current					A
Temperature Rise				30K	
Operating Temperature		-10		65	°C

3 Software Overview

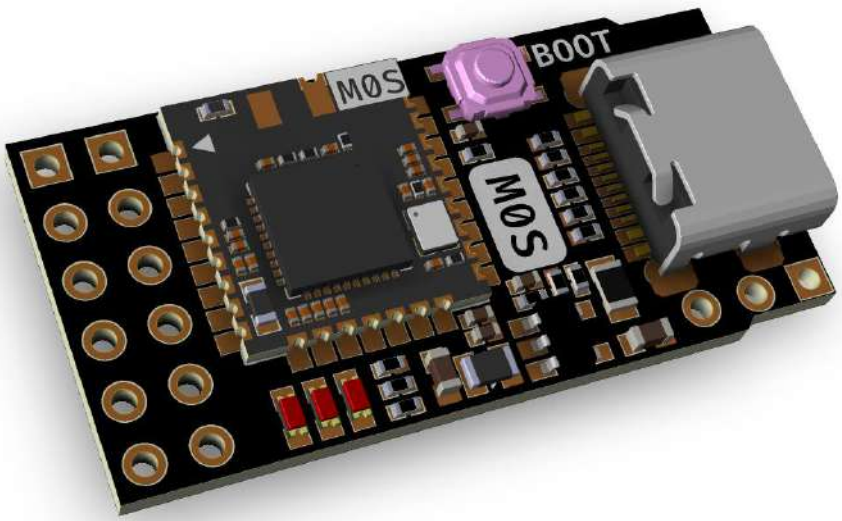
Parameter	Description
Operating System	FreeRTOS
Firmware download method	USB virtual serial port download, or USB virtual disk drag and drop update
Development method	Development method C SDK, pikascript scripted programming

4 Dimensions and interfaces

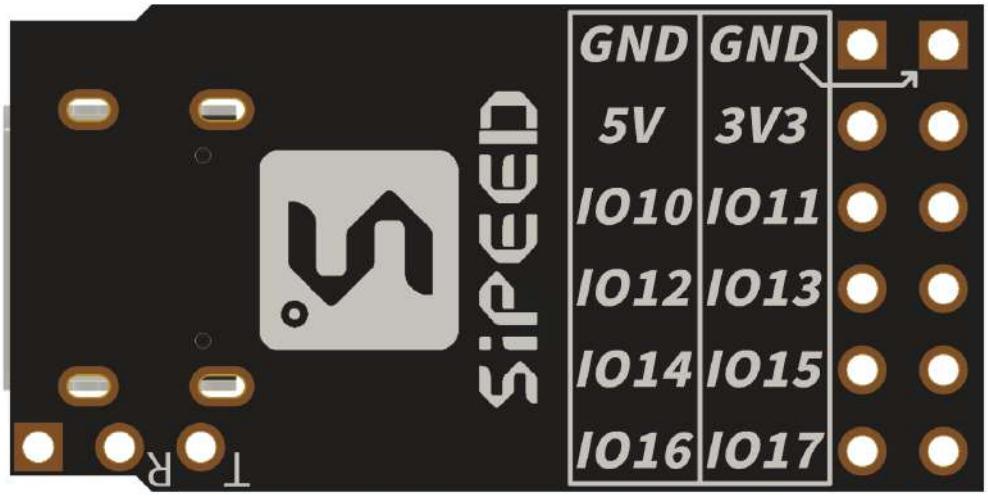
4.1 Module size and structure



4.2 Physical picture of camera



4.3 Pin description



Dock		SDebugger HS		SUART4 HS		SLogic Pico	
GND	GND	GND	GND	GND	GND	GND	GND
5V	3V3	5V	3V3	5V	3V3	5V	3V3
IO10	IO11	TCK	TXD	TX0	TX2	CH0	CH1
IO12	IO13	TDI	RXD	RX0	RX2	CH2	CH3
IO14	IO15	TDO	DTR	TX1	TX3	CH4	CH5
IO16	IO17	TMS	RTS	RX1	RX3	CH6	CH7

5 Product related Executive Standards

6 Operating precautions

During the use of this product, attention must be paid to operation safety and maintenance, otherwise it may cause damage to the product, shorten its service life, and even endanger personal safety. For safe use and maintenance, attention should be paid to the following aspects:

- This product is a high-precision electronic product. Please do not collide or fall.
- Although the Class1 laser used in this product meets the safety standards for human eyes, it is not recommended to look directly at the laser for a long time to avoid discomfort.
- Do not place this product in a place with high temperature or direct sunlight.
- Do not disassemble or modify this product without permission to prevent damage to the components of the product.
- Do not touch the camera of this product to avoid leaving fingerprints and other pollutants affecting the image effect.
- Please keep this product out of the reach of children to prevent accidents.
- Please follow the manual for correct and safe operation.

7 Related Information

Parameter	Description
Official Website	www.sipeed.com
Github	https://github.com/Sipeed
BBS	http://bbs.sipeed.com
Wiki	wiki.sipeed.com
Sipeed Modeling Platform	https://maixhub.com/
SDK/HDK related information	https://dl.sipeed.com/
Official documentation of bouffalolab	https://dev.bouffalolab.com/home/
E-mail (technical support and business cooperation)	support@sipeed.com