

M5StampS3 PIN2.54

SKU:S007-PIN254



Description

M5StampS3 PIN2.54 is a highly integrated embedded main control core module, using Espressif **ESP32-S3FN8** chip, included **8MSPI flash memory**, equipped with high-performance Xtensa 32-bit LX7 dual-core processor, main frequency up to 240MHz. Built-in highly integrated 5V to 3.3V circuit, **RGB status indicator**, **programmable button**, module leads out **23 GPIOs on ESP32-S3**, and it leads out in the form of **2.54MM** spacing needle; The product features compact volume, strong performance, rich expansion IO and low power consumption. The module is suitable for **IoT application scenarios with embedded main control modules**.

Features

- ESP32-S3FN8(2.4GHz Wi-Fi)
- Integrated programmable RGB LED and button
- 2.54mm pin header
- Support UIFlow graphical programming

Includes

- 1 * M5StampS3 PIN2.54
- 1 * Silk screen stickers

Applications

Applications

- Smart home
- Wearables
- Medical equipment

Specification

Resources	Parameters
MCU	ESP32-S3FN8
DCDC	Highly integrated MUN3CAD01-SC
Flash	8MB
Input voltage	5V
Interactive	Programmable physical buttons x 1, programmable RGB LED (WS2812B-2020) x 1
Antenna type	2.4G 3D antenna
Module resource interface	Touch sensor, SD/SDIO/MMC master controller, SPI, SDIO/SPI slave controller, EMAC, motor PWM, LED PWM, UART, I2C, I2S, GPIO, pulse counter
IO interface x23	G0/G1/G2/G3/G4/G5/G6/G7/G8/G9/G10/G11/G12/G13/G14/G15/G39/G40/G41/G42/G43/G44/G46
Pin header spacing	2.54mm
lcd interface spacing	0.5mm@12pin or 8pin
Quantity	

Operating
Resources
temperatur

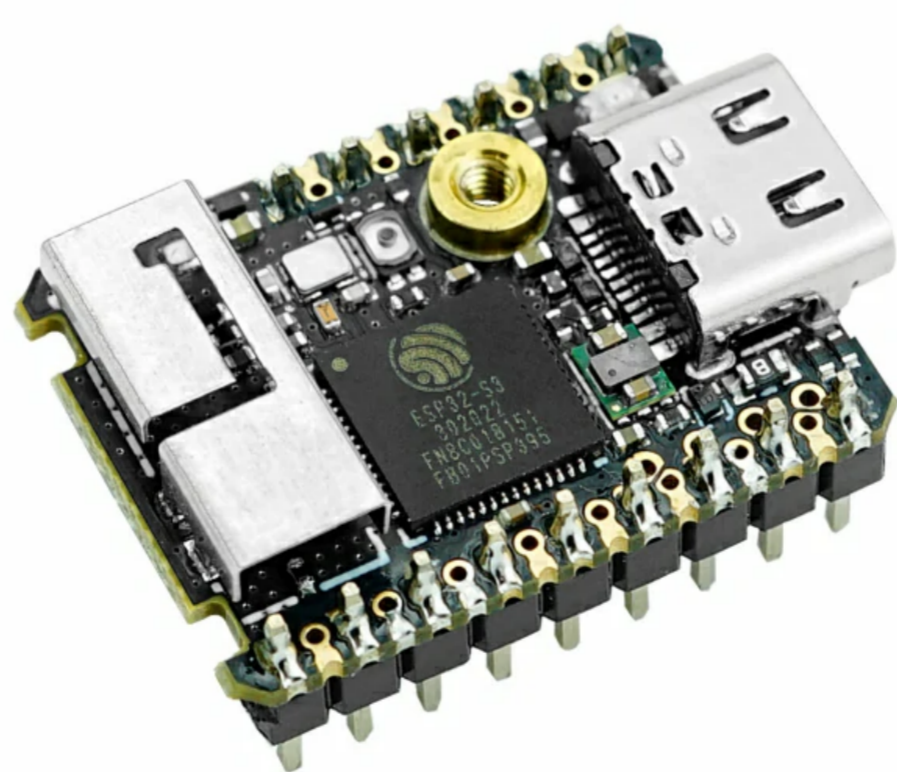
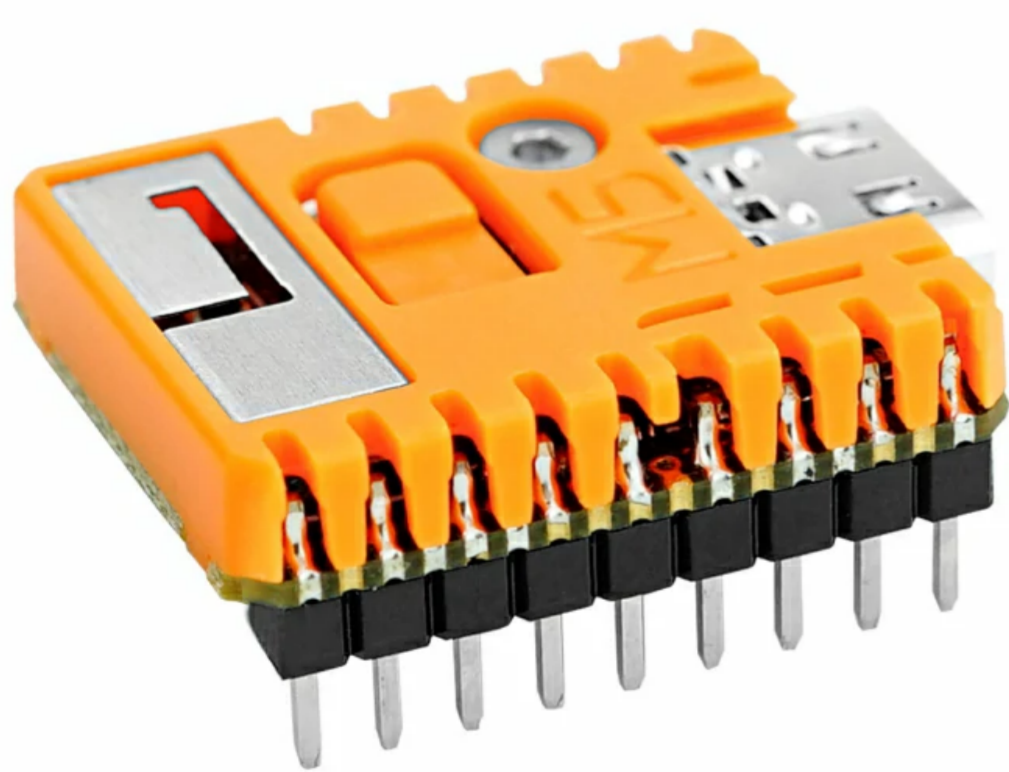
Parameters
0°C to 40°C

e

Product Size	26mm × 18mm × 4.6mm
Package Size	136mm × 92mm × 13mm
Product Weight	3.5g
Package Weight	6.3g

Products related to this item

[M5StampS3\(S007\)](#)

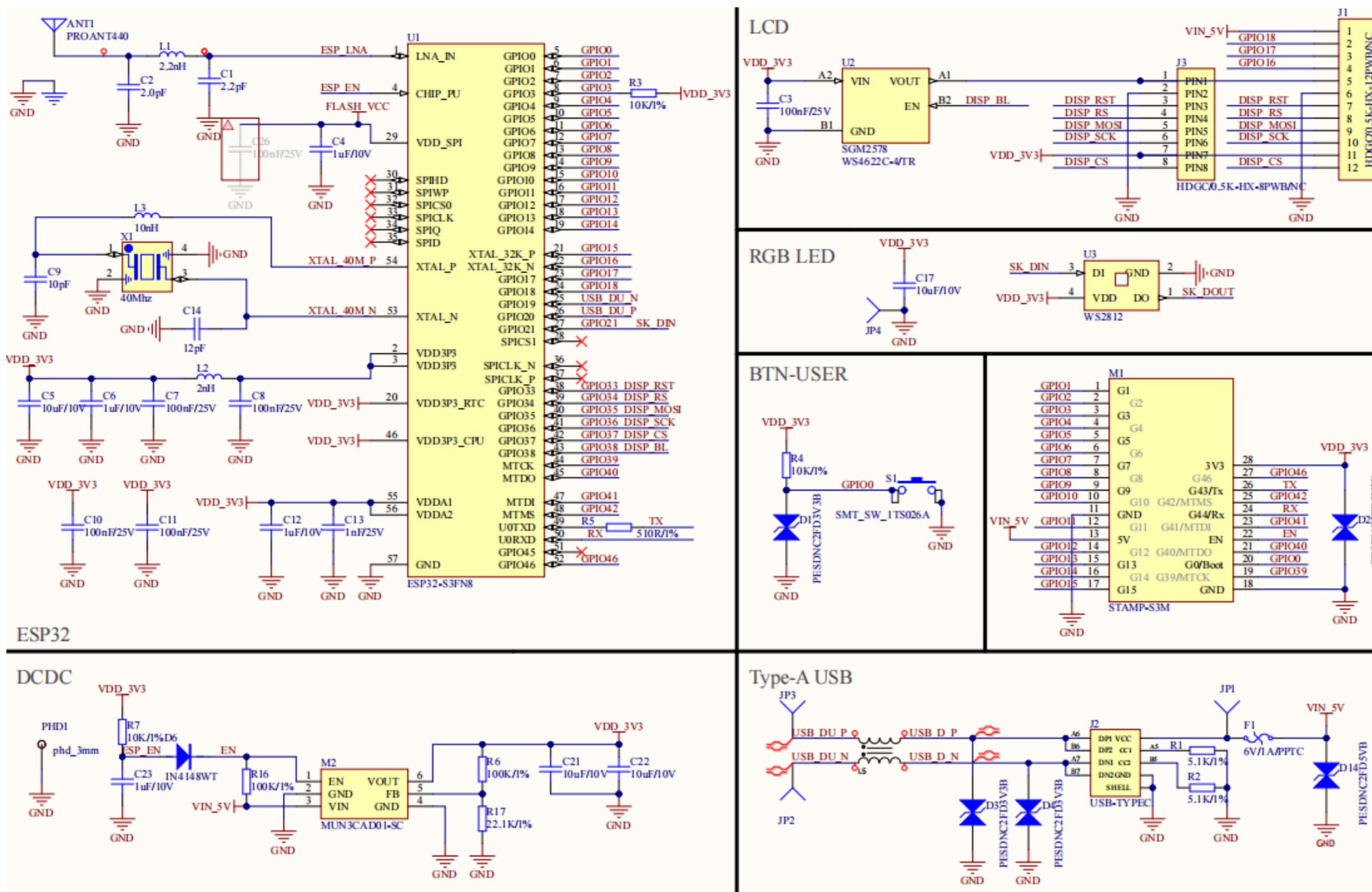


Related Link

- [ESP32-S3](#)
- [MUN3CAD01-SC](#)

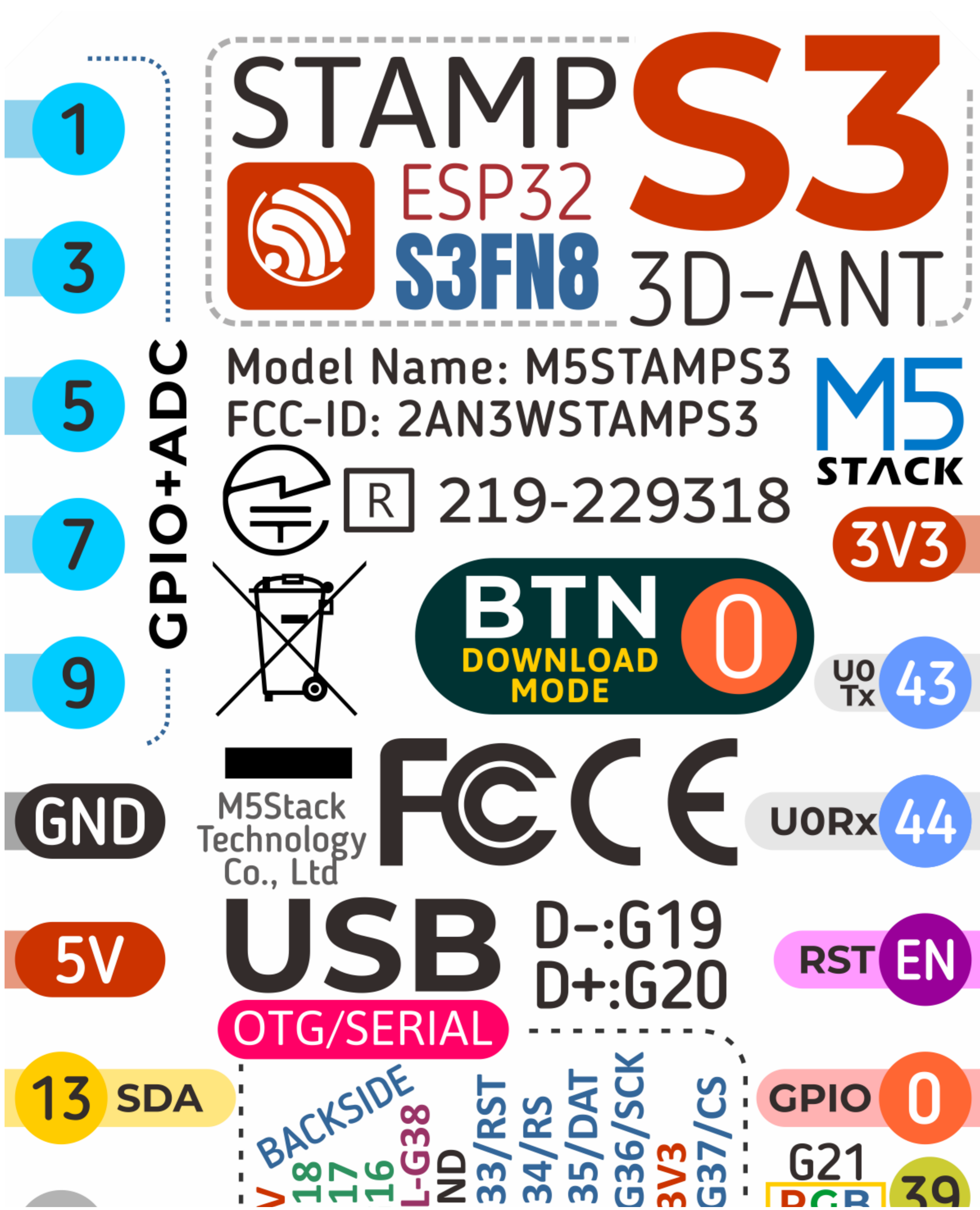
Schematic

SCHEMATIC



o Schematic pdf

LABEL



15 SCL

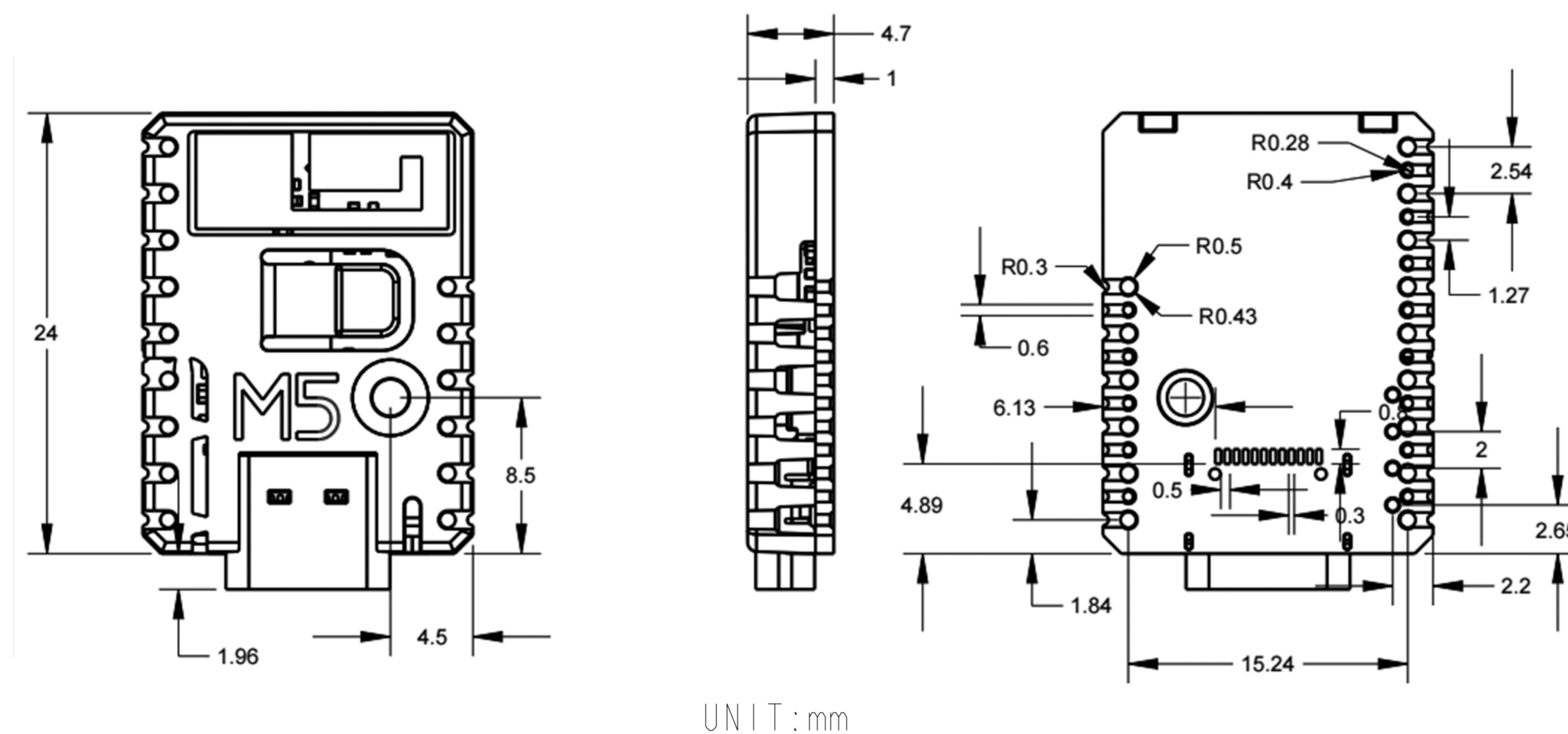
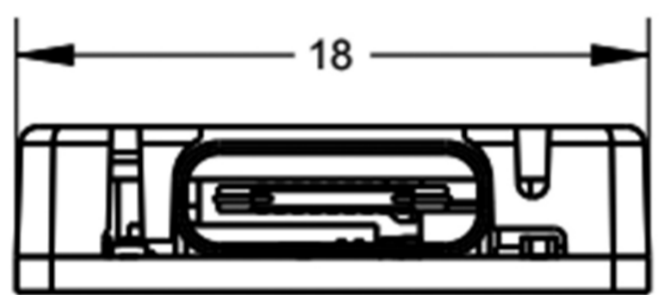
1-5 G G G B G G G G G
2-3 4 5-B 6-7 8-9 10-11 12-13
Ext. LCD.PORT

STATUS
GND

PCB package

- [kicad PCB package](#)

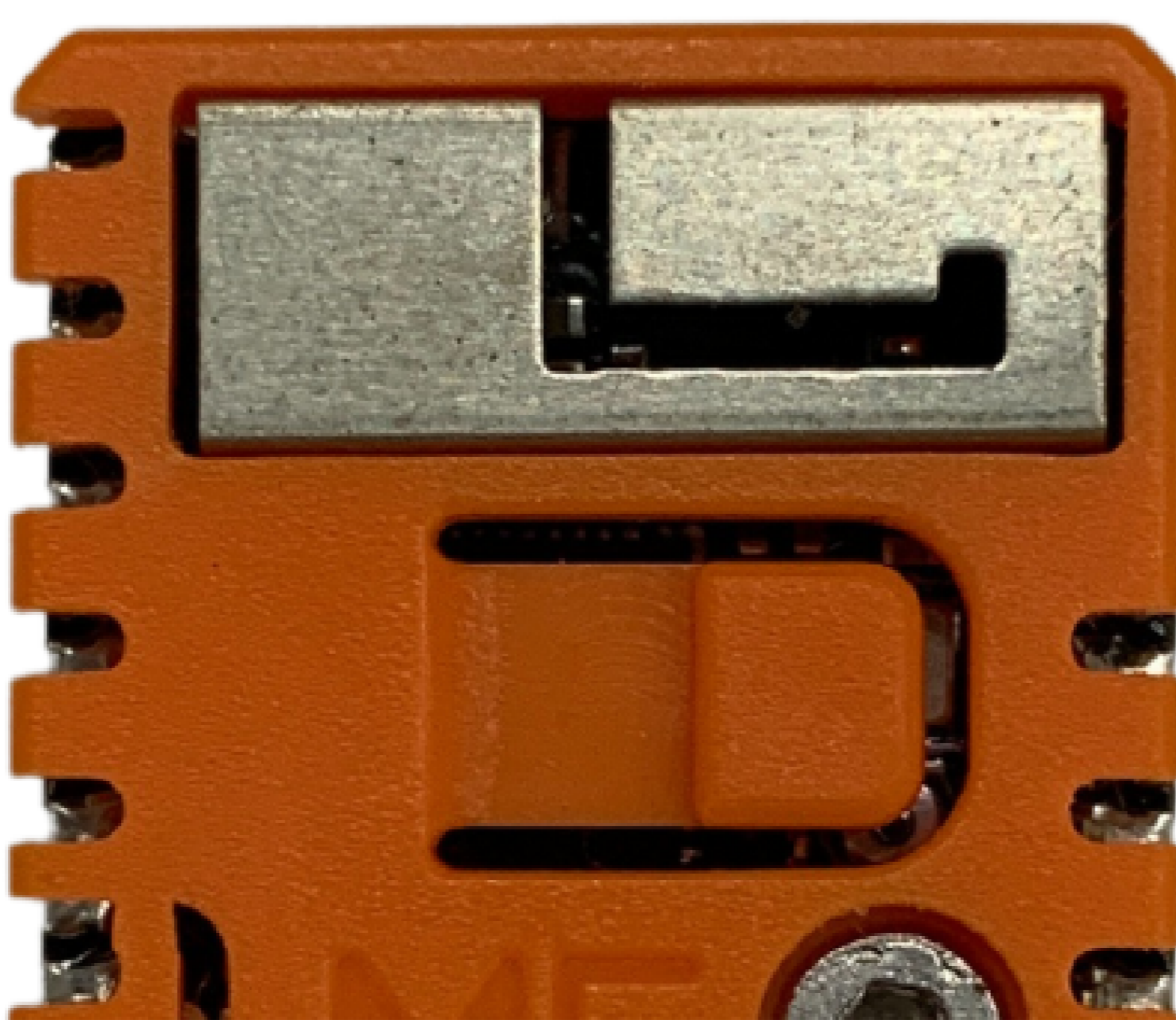
Module Size

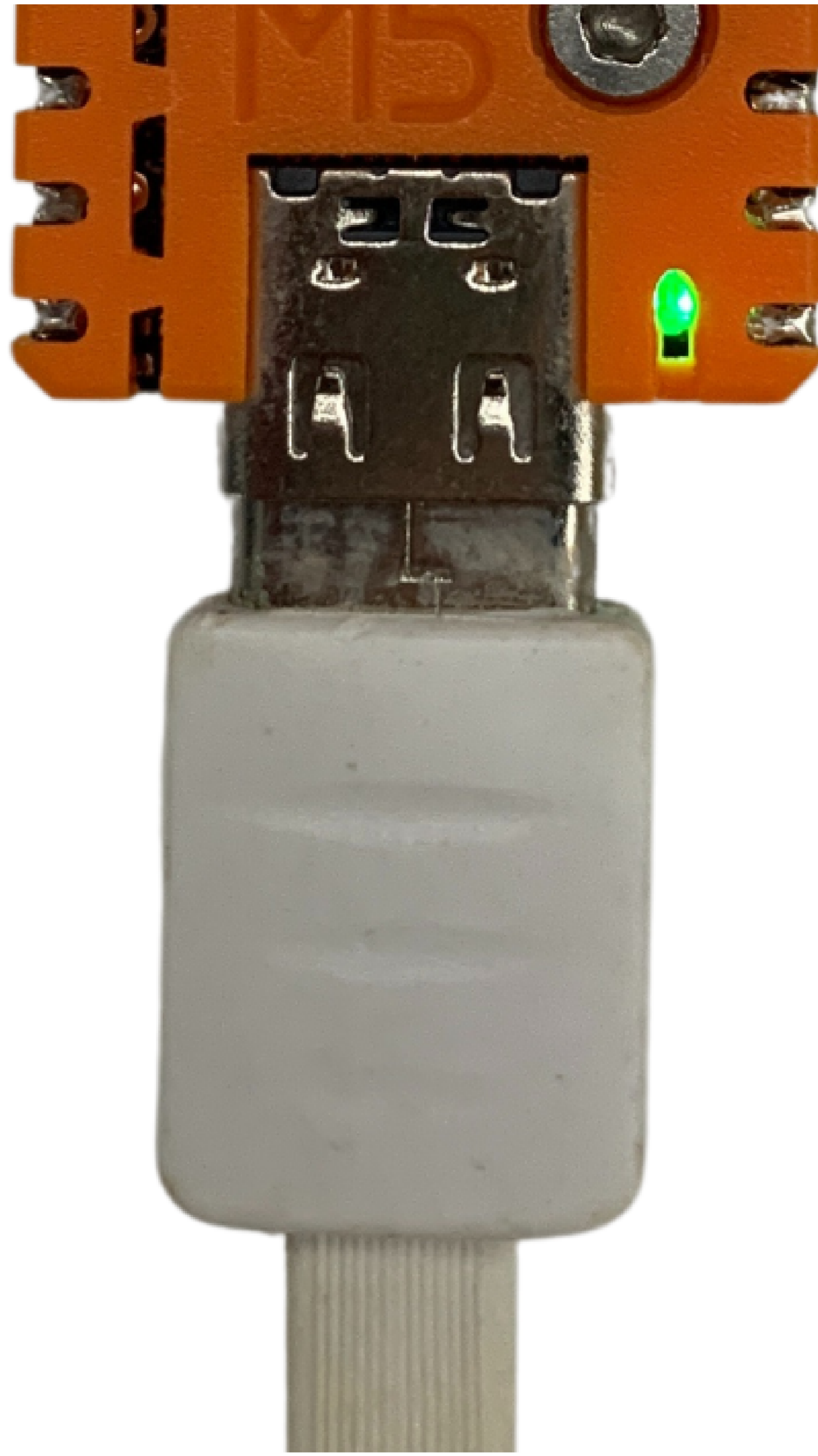


Examples

Arduino

- [StampS3 Arduino Example](#)






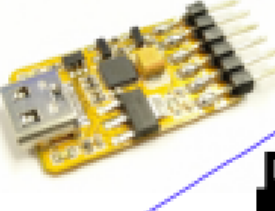

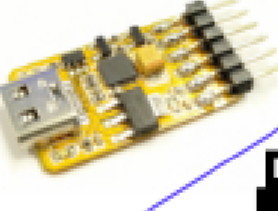

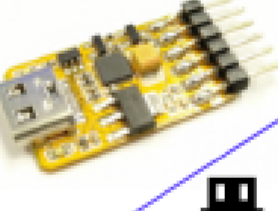





Compare

M5STAMP

Comparison chart

COMPARISON	STAMP PICO	STAMP C3U	STAMP C3	STAMP S3
PICTURE				
Number of IO ports	12	14	13	23
FLASH	4M	4M	4M	8M
Serial IC	/	USB CDC	CH9102F	USB CDC
Download method		 	 	  OTG
Pin spacing	2.54mm	2.54mm	2.54mm	2.54mm/ 1.27mm
LCD interface	✗	✗	✗	✓
CPU frequency	240MHz	160 MHz	160 MHz	240MHz
Size	24 × 18 × 4.6mm	34 × 20 × 4.6mm	34 × 20 × 4.6mm	26 × 18 × 4.6mm