

M5StampS3 PIN1.27



SKU:S007-PIN127



Description

M5StampS3 PIN1.27 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 **1.27MM** 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
- 1.27mm pin header
- Support UIFlow graphical programming

Includes

- 1 * M5StampS3 PIN1.27
- 1 * Silk screen stickers

Applications

I Applications

- Smart home
- Wearables
- Medical equipment

I 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	Touch sensor, SD/SDIO/MMC master controller, SPI, SDIO/SPI slave controller, EMAC, motor PWM, LED PWM, UART, I2C, I2S, GPIO, pulse interface 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	1.27mm
Lcd interface spacing	0.5mm@12pin or 8pin

Operating

temperature

temperatur

Parameters

0°C to 40°C

e

Product

26mm × 18mm × 4.6mm

Size

Package

136mm × 92mm × 13mm

Size

Product

3.1g

Weight

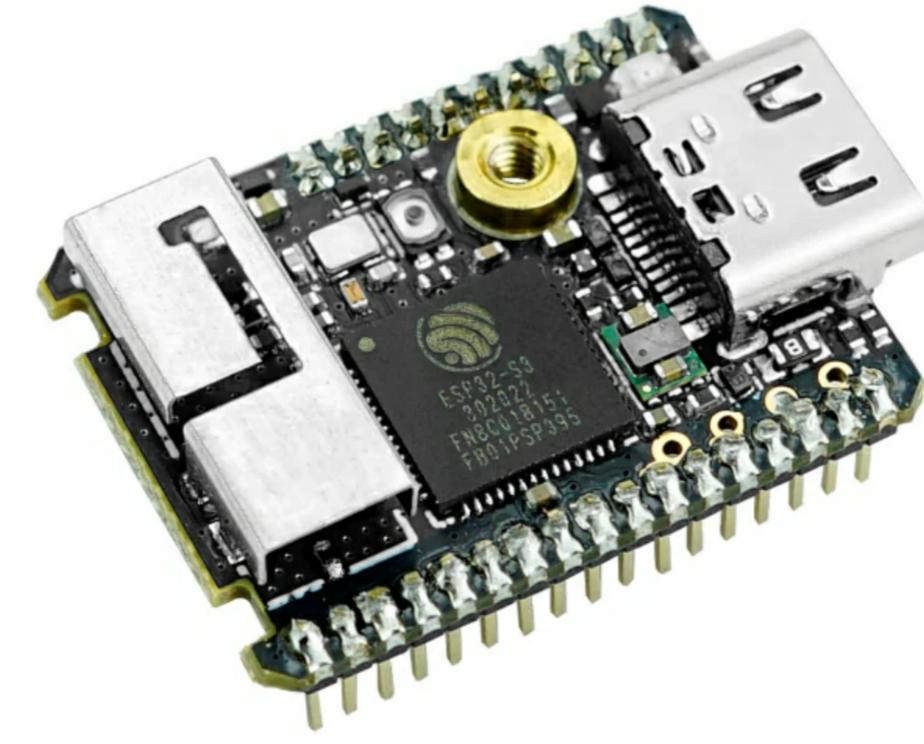
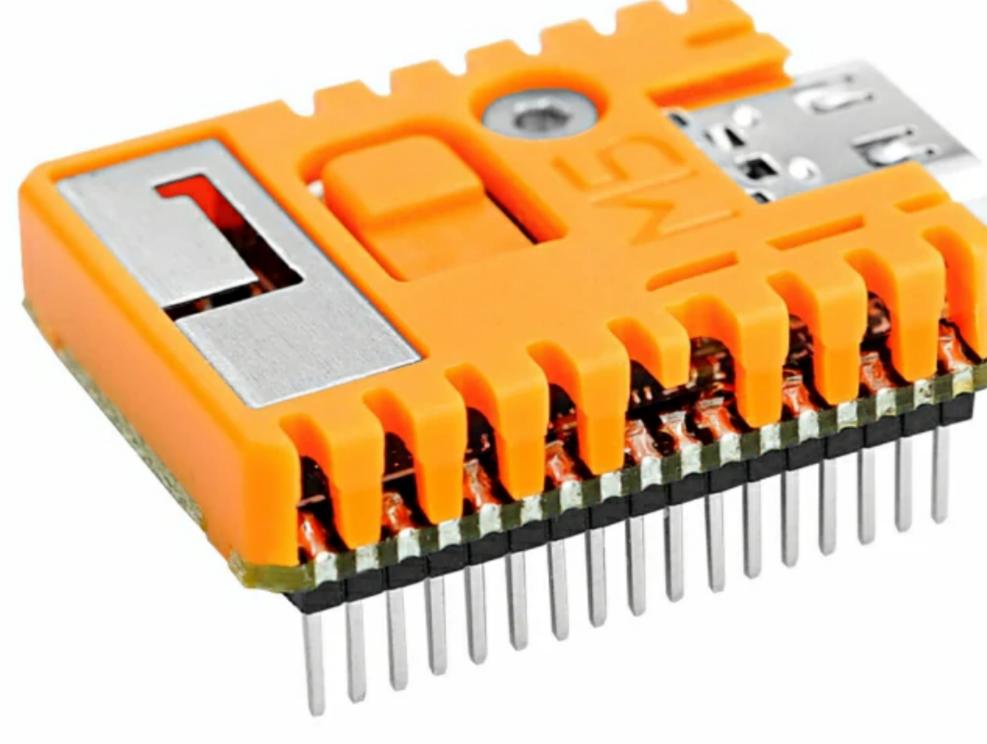
Package

5.6g

Weight

I Products related to this item

[StampS3BreakOut \(A129\)](#)

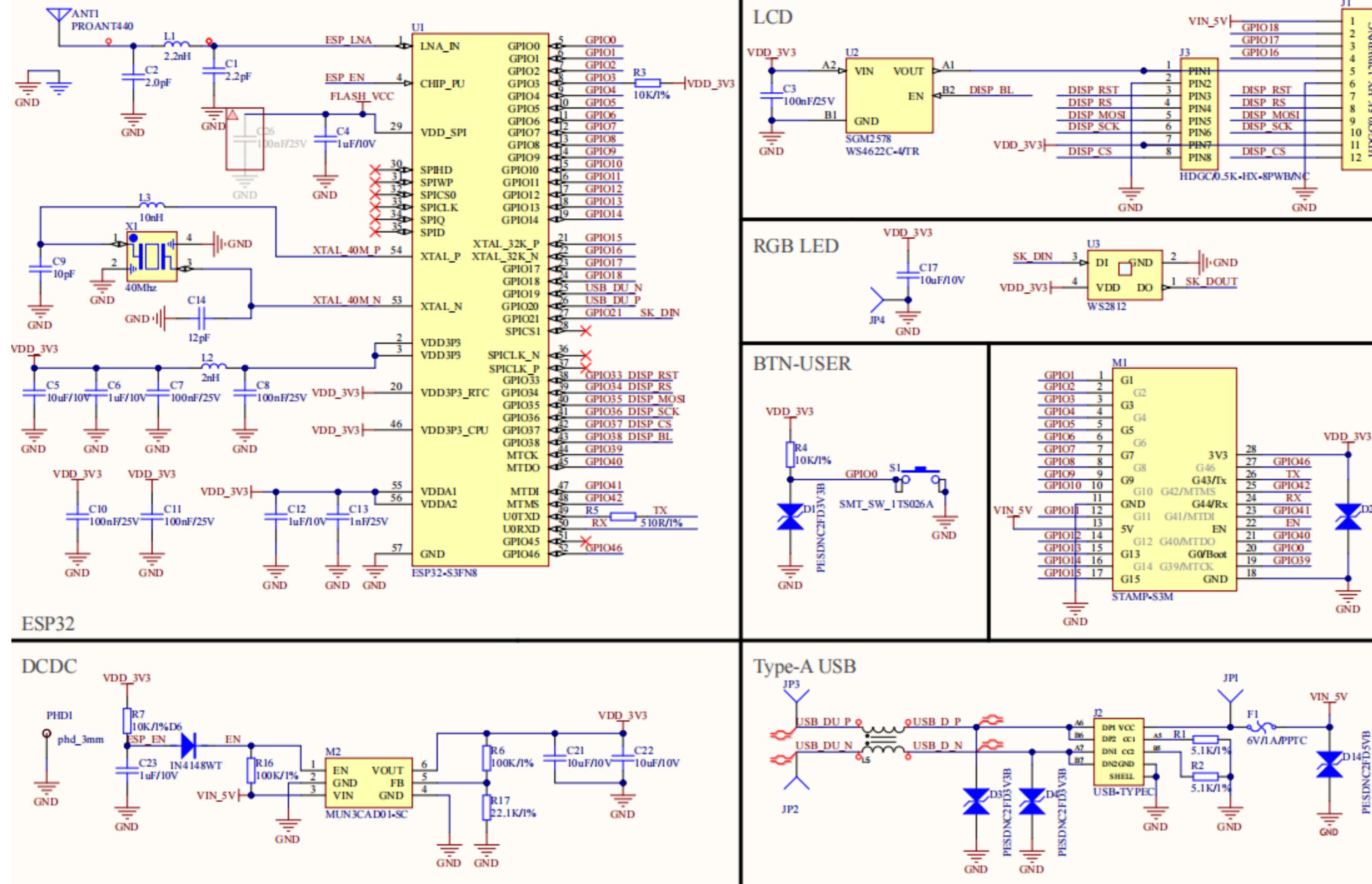


I Related Link

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

I Schematic

I Schematic



○ Schematic pdf

I LABEL

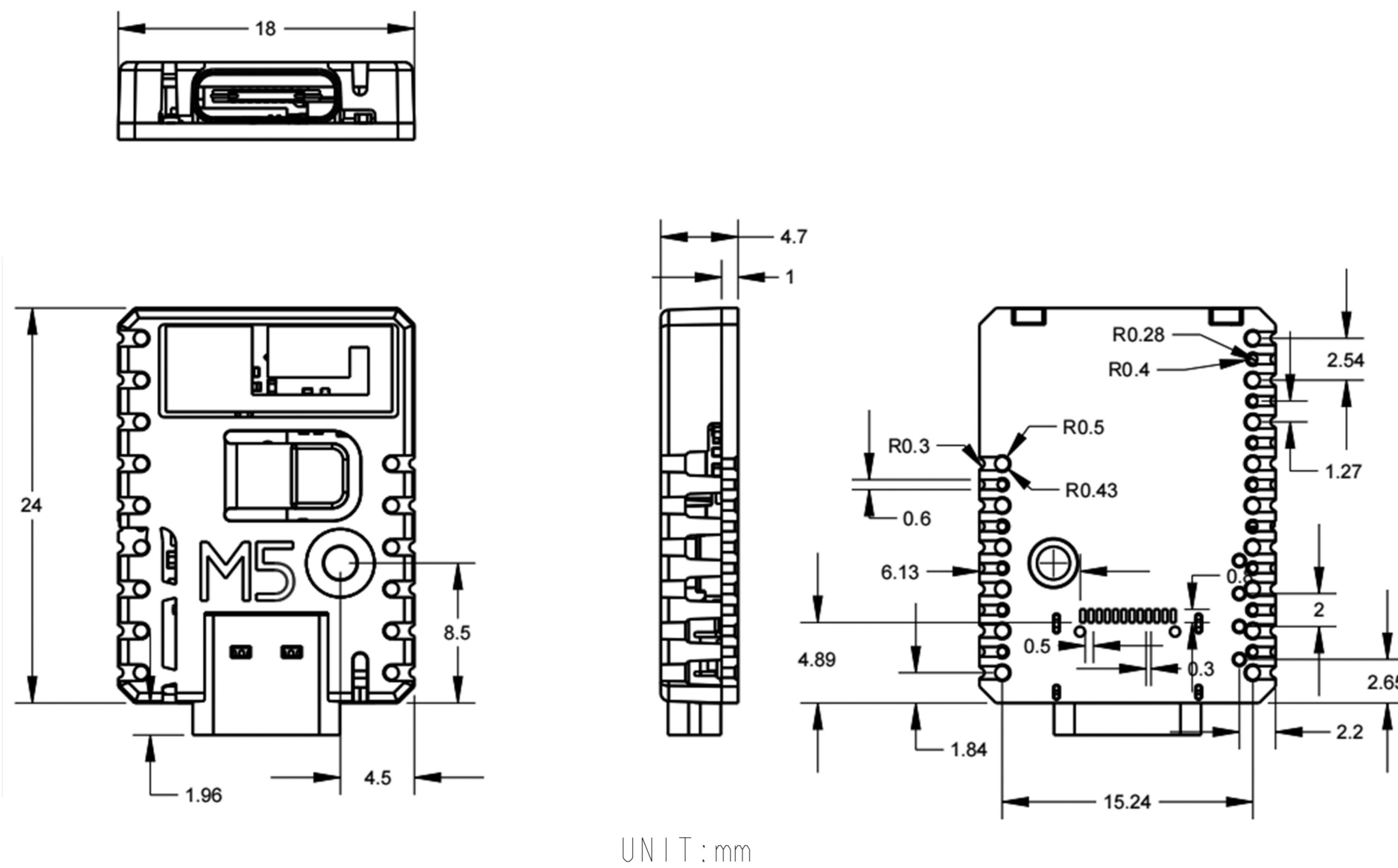




| PCB package

- ## ○ kicad PCB package

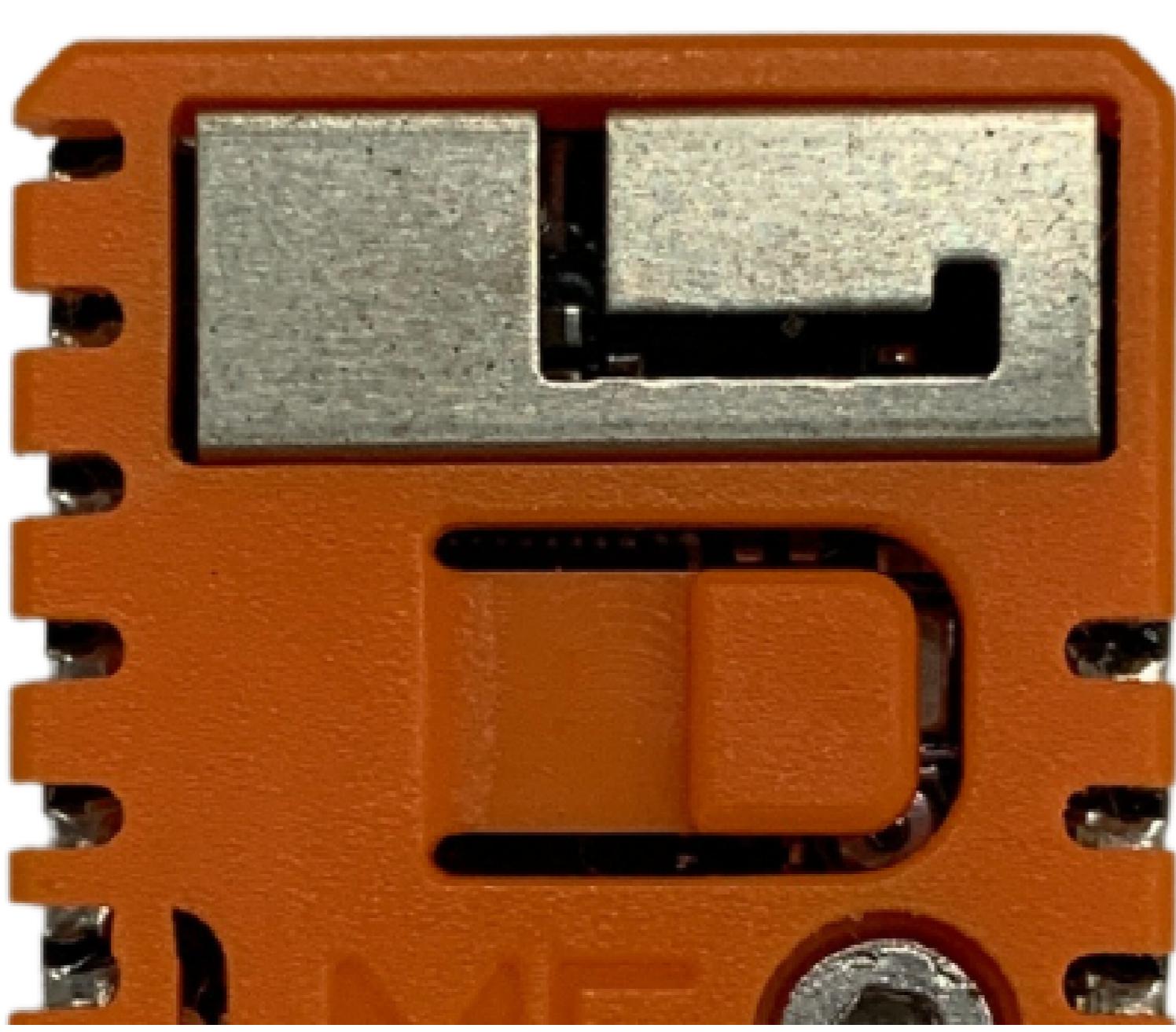
| Module Size



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 x 18 x 4.6mm	34 x 20 x 4.6mm	34 x 20 x 4.6mm	26 x 18 x 4.6mm