

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

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 | 1.27mm |
| lcd interface spacing | 0.5mm@12pin or 8pin |
| Quantity | |

Operating
Resources
temperatur

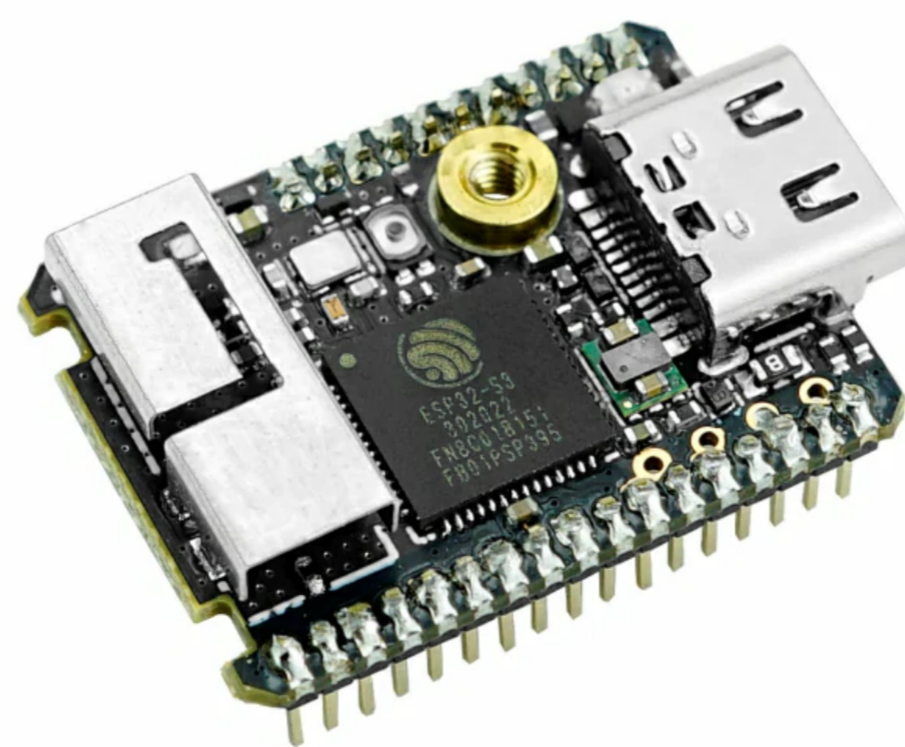
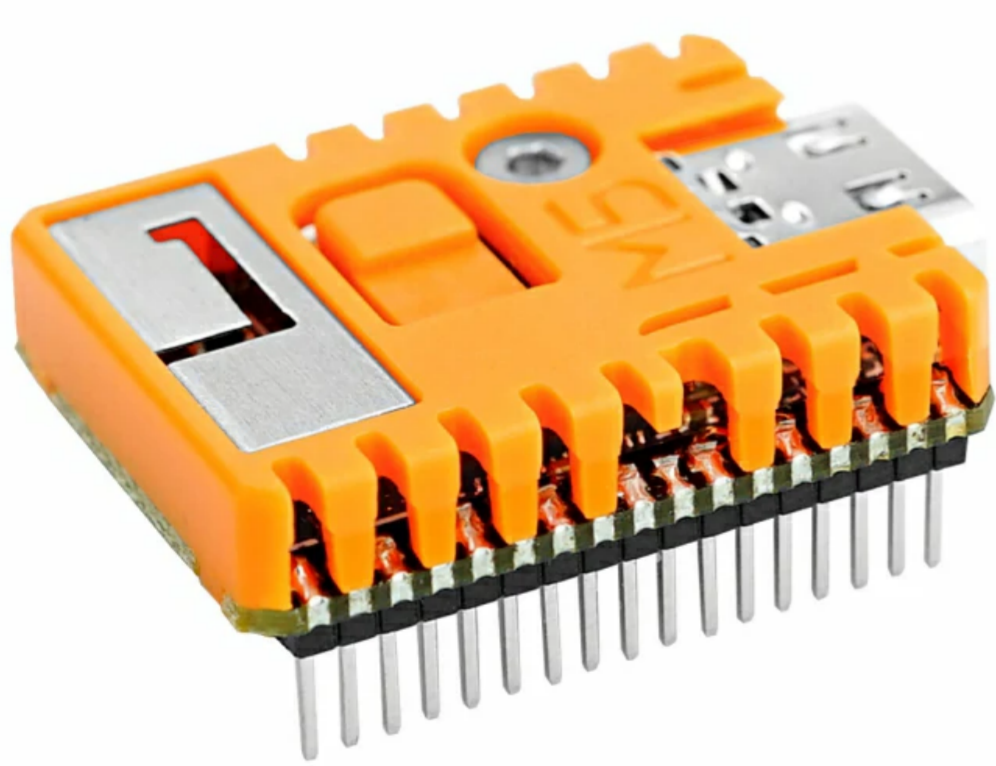
Parameters
0°C to 40°C

e

| | |
|-------------------|---------------------|
| Product Size | 26mm × 18mm × 4.6mm |
| Package Size | 136mm × 92mm × 13mm |
| Product Weight | 3.1g |
| Package Weight | 5.6g |

Products related to this item

[StampS3BreakOut \(A129\)](#)

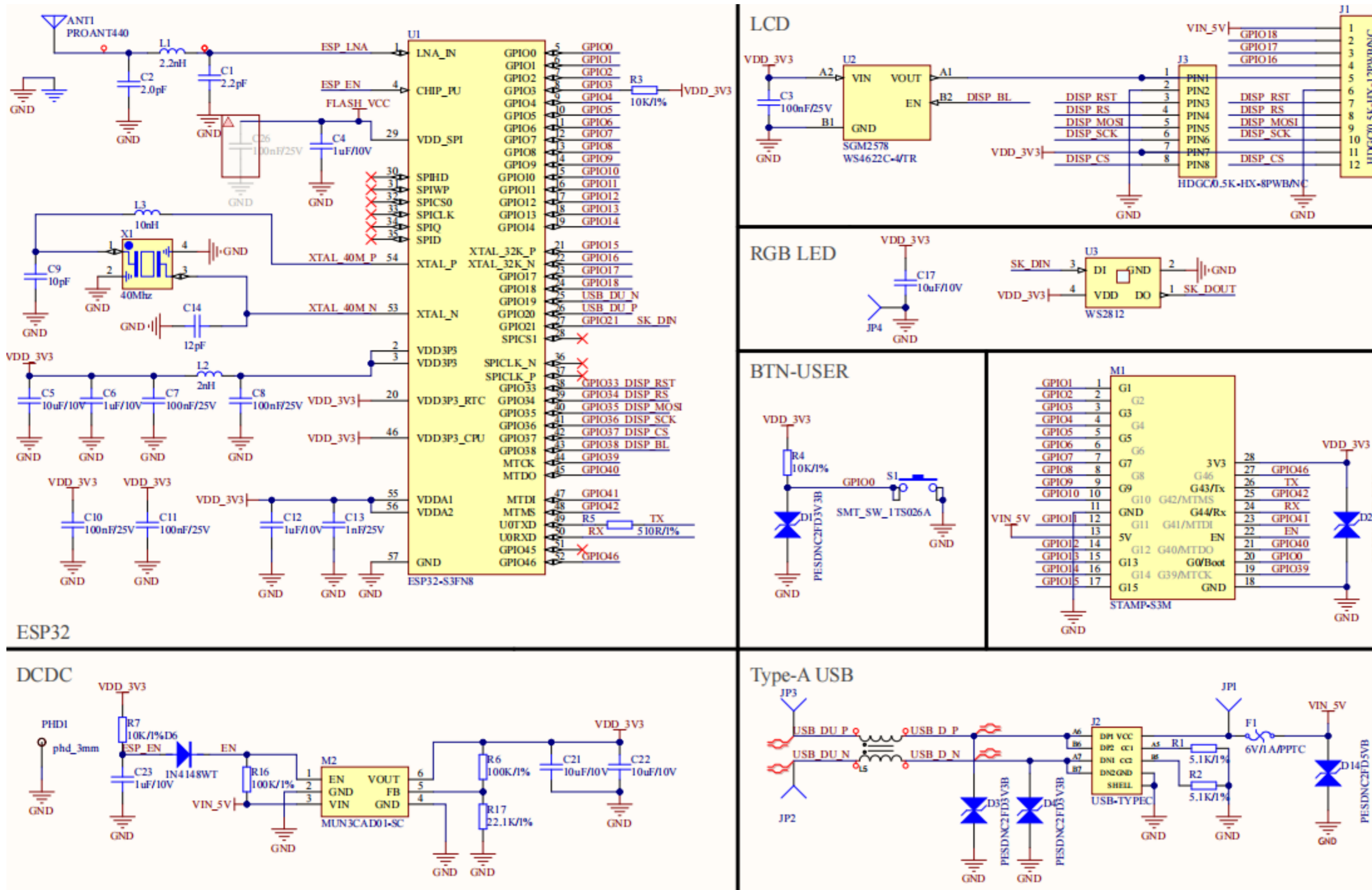


Related Link

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

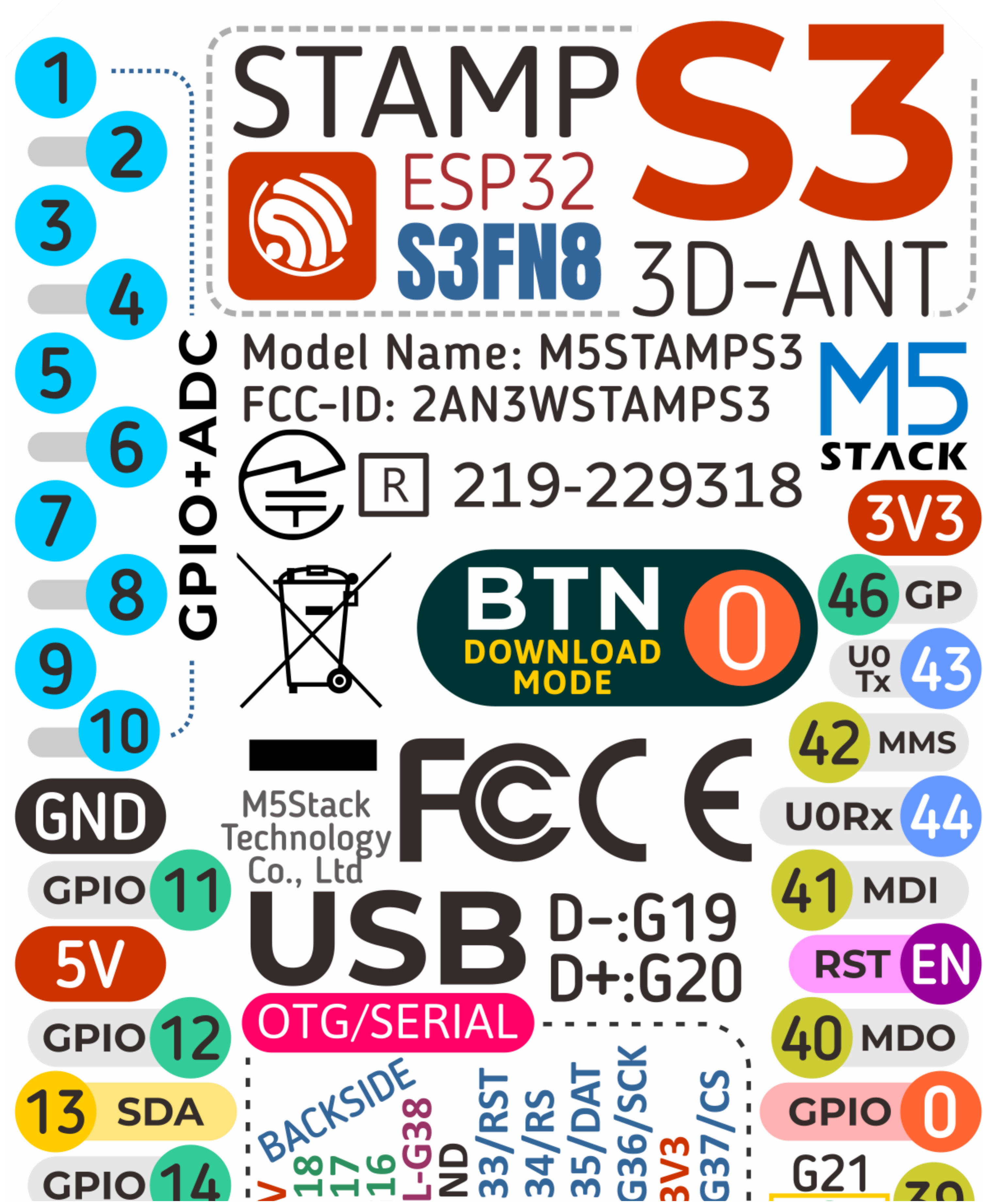
Schematic

Schematic



o [Schematic pdf](#)

LABEL

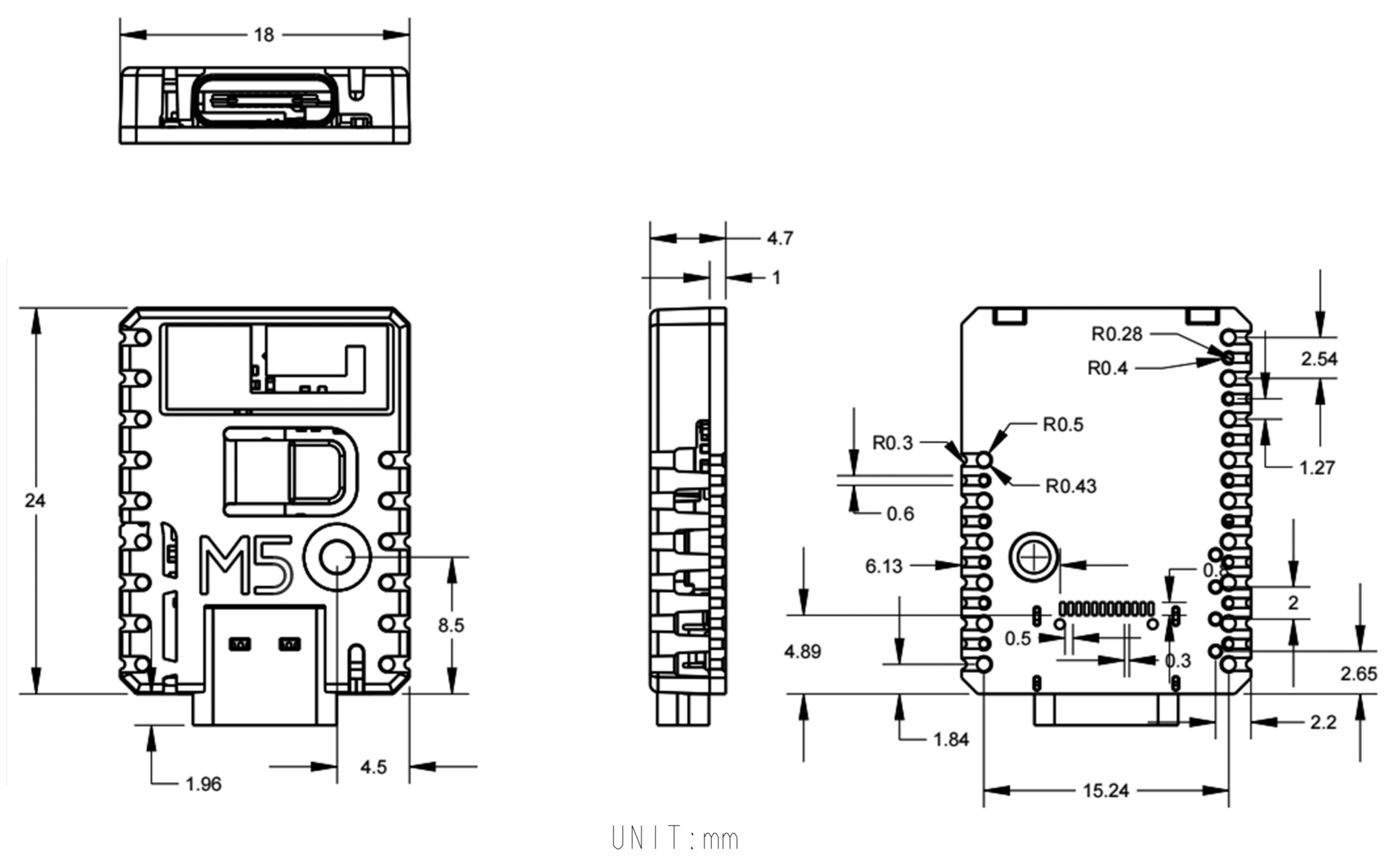




PCB package

- [kicad PCB package](#)

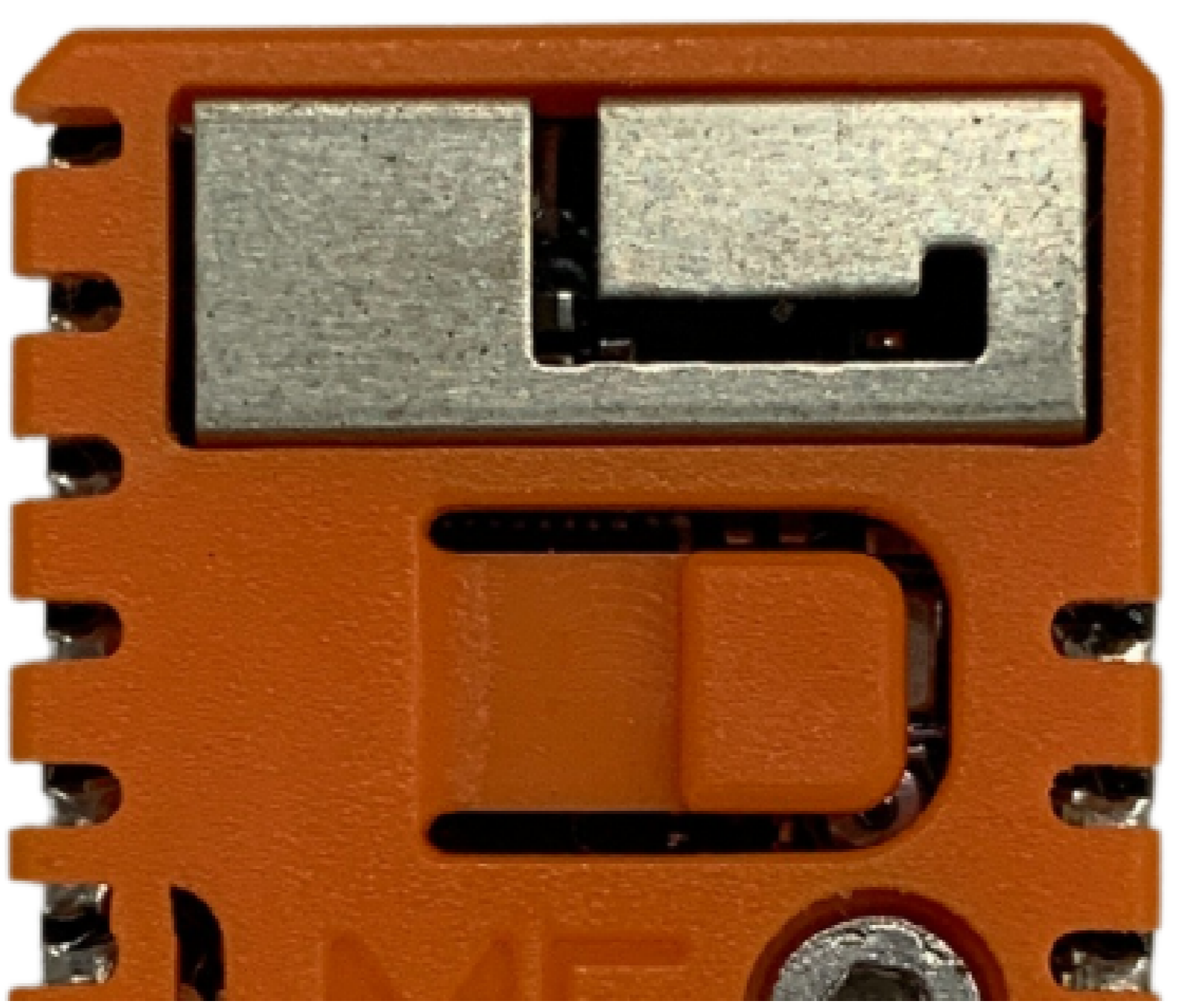
Module Size

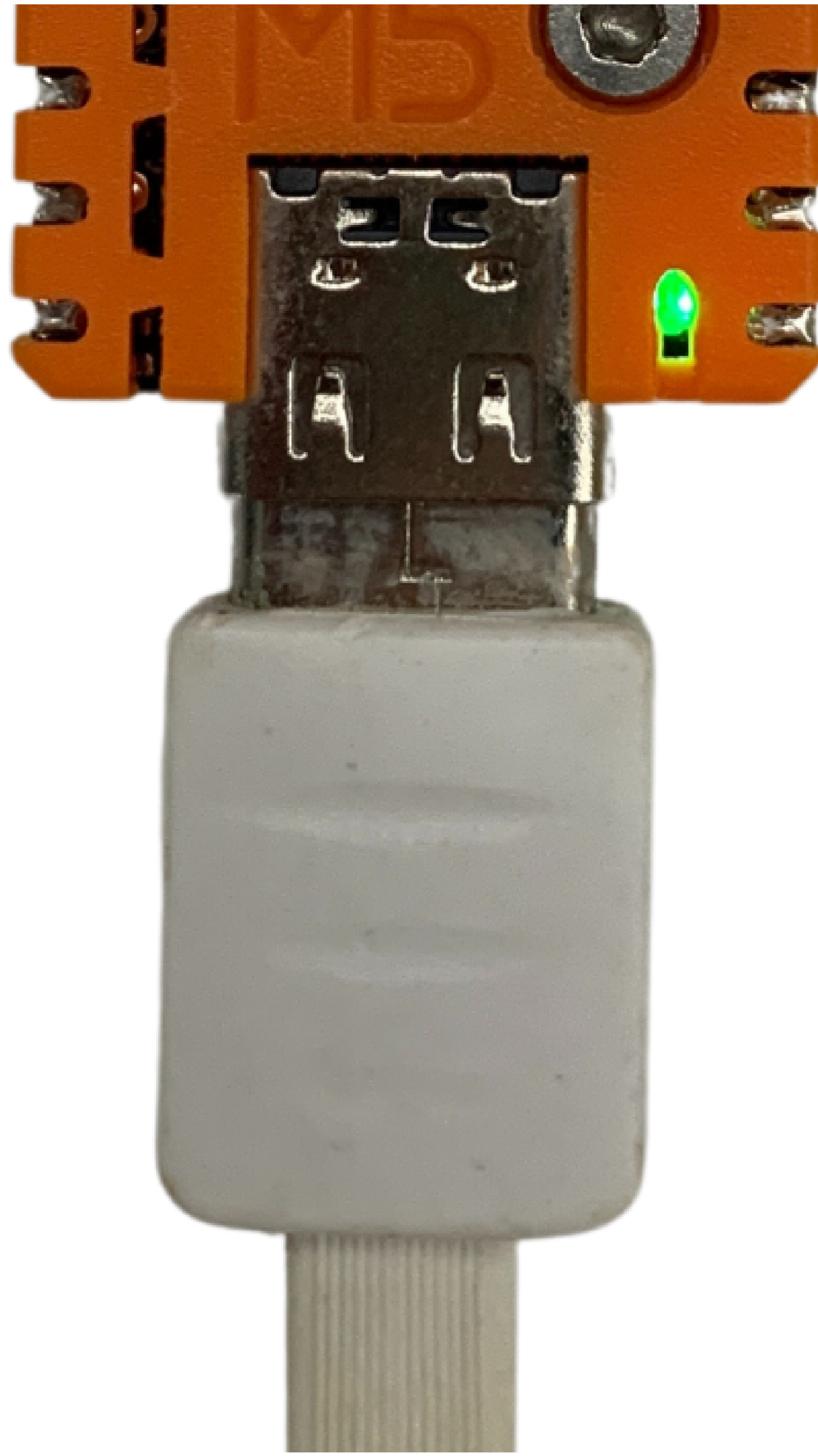


Examples

Arduino

- [StampS3 Arduino Example](#)






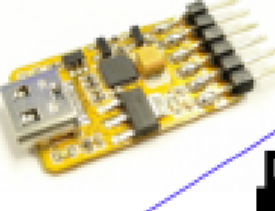

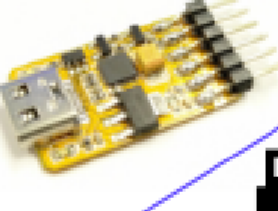

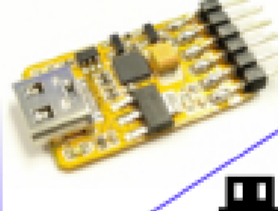





Compare

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 × 18 × 4.6mm | 34 × 20 × 4.6mm | 34 × 20 × 4.6mm | 26 × 18 × 4.6mm |