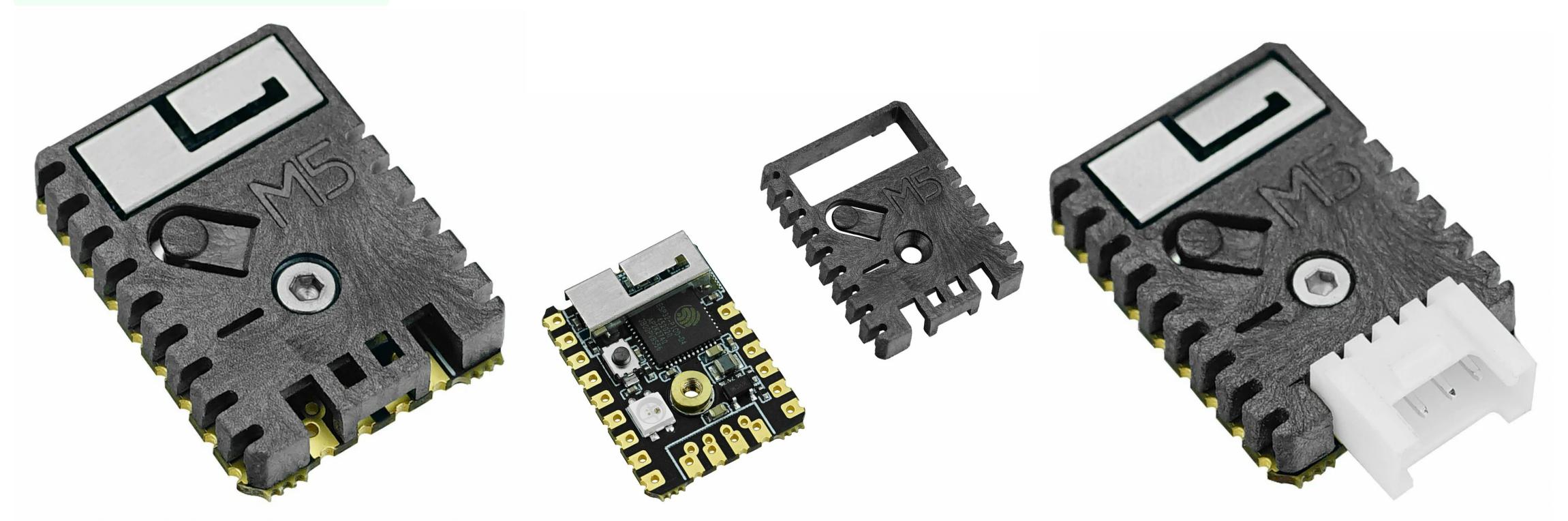
STAMP-PICO

SKU:C050-B, K051, K051-B



Description

STAMP-PICO features an ultra-compact design with two low-power Xtensa® 32-bit LX6 microprocessors at 240MHz on a PCB as tiny and delicate as a postage stamp. low power consumption. It is ideal for any space-constrained or battery-powered devices such as wearables, medical devices, sensors, and other IoT devices.

- 1, MULTIFORM: 5 options of installation, means endless possibilities! (SMT, DIP, flywire, grove interface), with a high-temperature resistant plastic shell, 3D antenna and components can be better protected.
- 2, LOW-CODE DEVELOPMENT: STAMP-PICO supports UIFlow graphical programming platform, scripting-free, cloud push; and fully compatible with Arduino, MicroPython, ESP32-IDF, and other mainstream development platforms to quickly build various applications.
- 3, HIGH INTEGRATION: STAMP-PICO contains 5V->3.3V DC/DC port, GPIOx12, programmable RGB light x1, button x1, finely tuned RF circuit,
 providing stable and reliable wireless communication.
- 4, STRONG EXPANDABILITY: Easy access to M5Stack's hardware and software ecology system: a wealth of sensors, actuators, functional modules, and accessories to choose from, Extremely fast adaptation.

Product Features

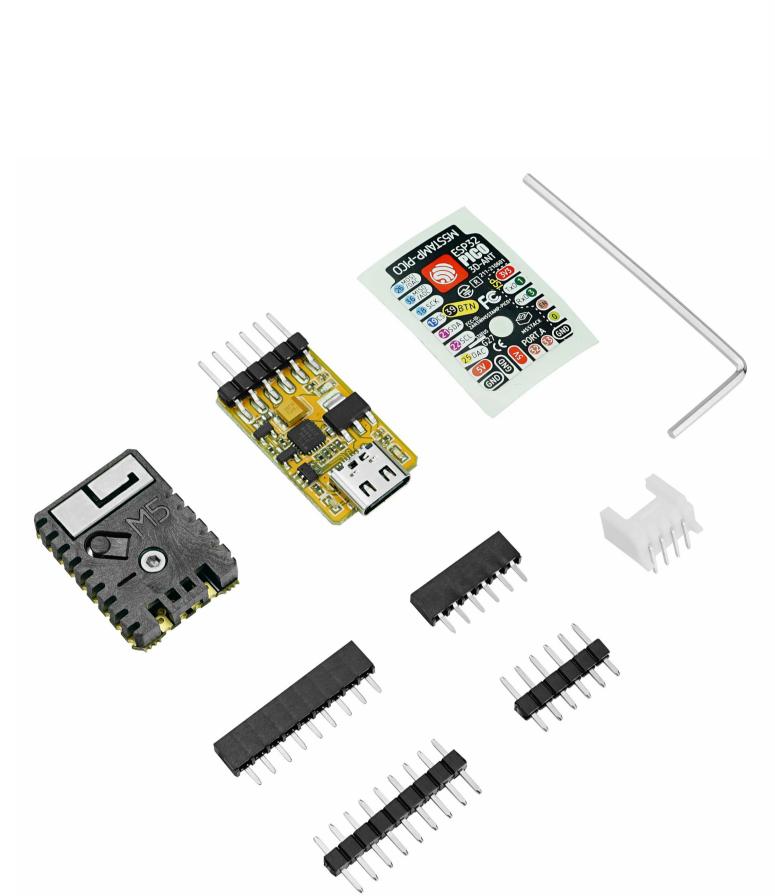
- Chip-set:ESP32-PICO-D4 (2.4GHz Wi-Fi and Bluetooth dual mode)
- Support UIFlow graphical programming
- Multi-IO pinout, support multiple application forms (SMT, DIP, fly-by-wire)
- Integrated programmable RGB LEDs and buttons
- Miniature module

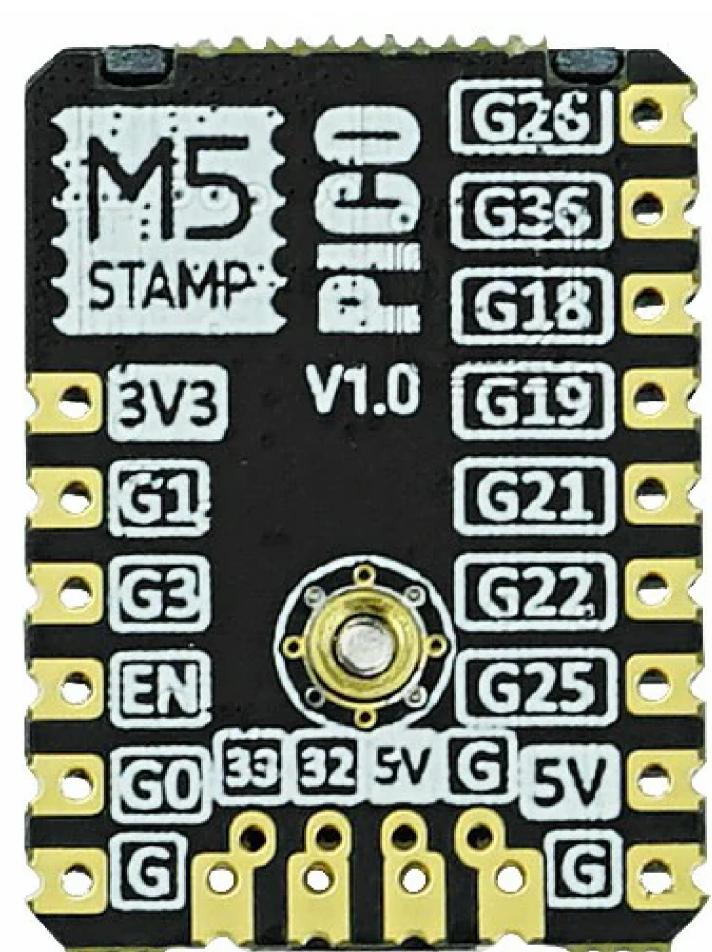
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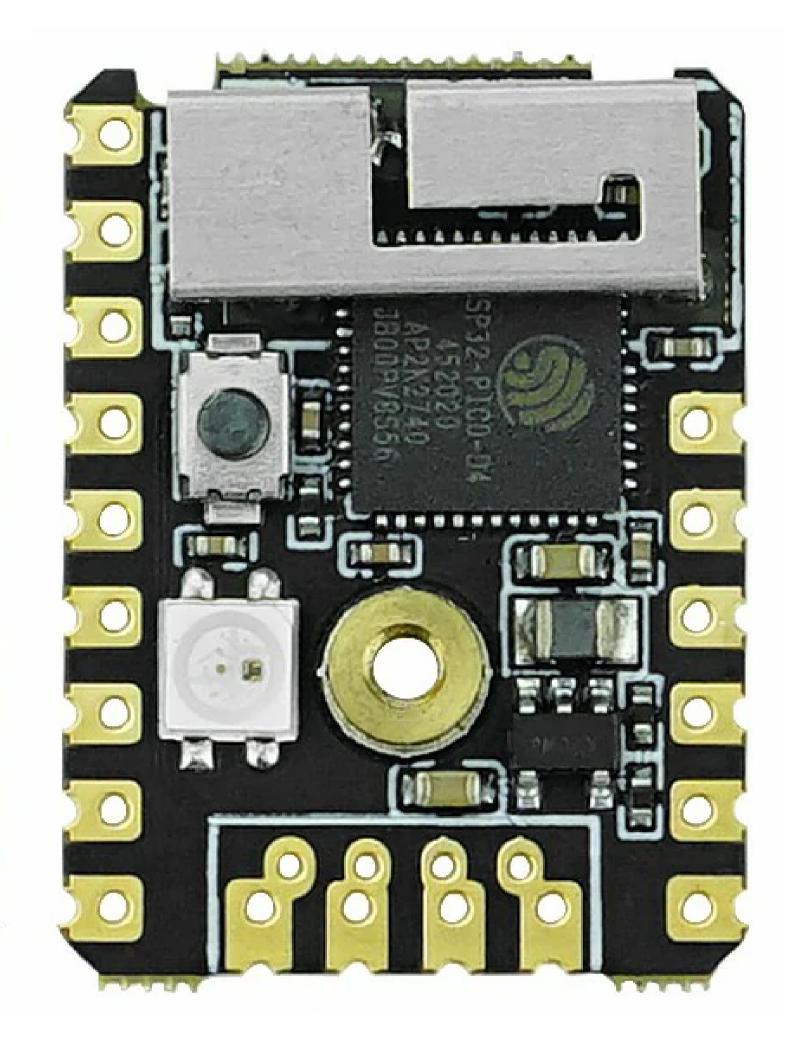
- M5Stamp Pico (5pcs): 5 x M5Stamp Pico 5 x Sticker
- o M5Stamp Pico Mate: 1 x M5Stamp Pico 1 x Sticker 4 x Pin Headers 1 x 90° Grove Connector 1 x Hex Key
- M5Stamp Pico DIY Kit: 1 x M5Stamp Pico 1 x Sticker 4 x Pin Headers 1 x 90° Grove Connector 1 x Hex Key 1 x ESP32 Downloade

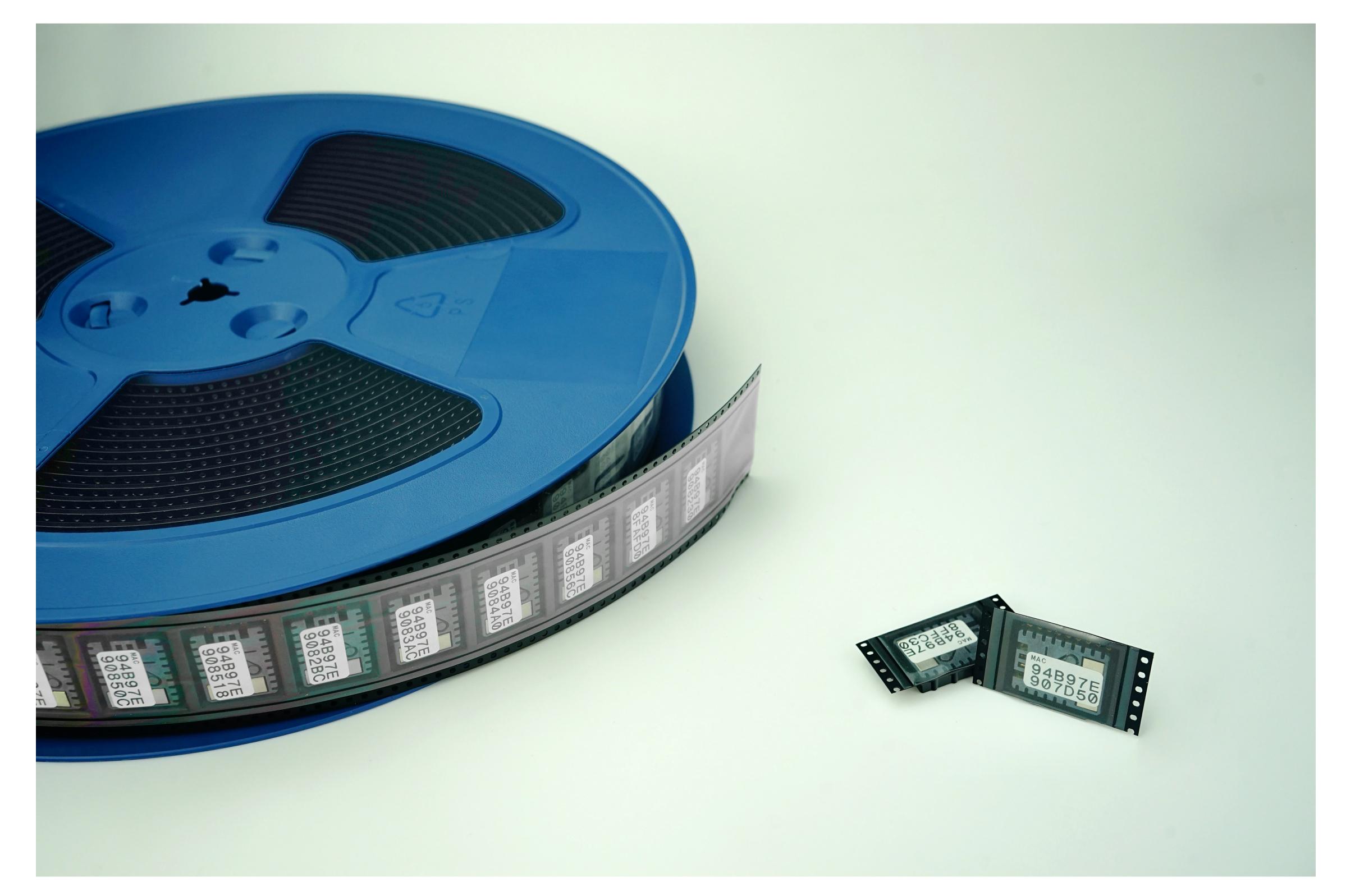
Applications

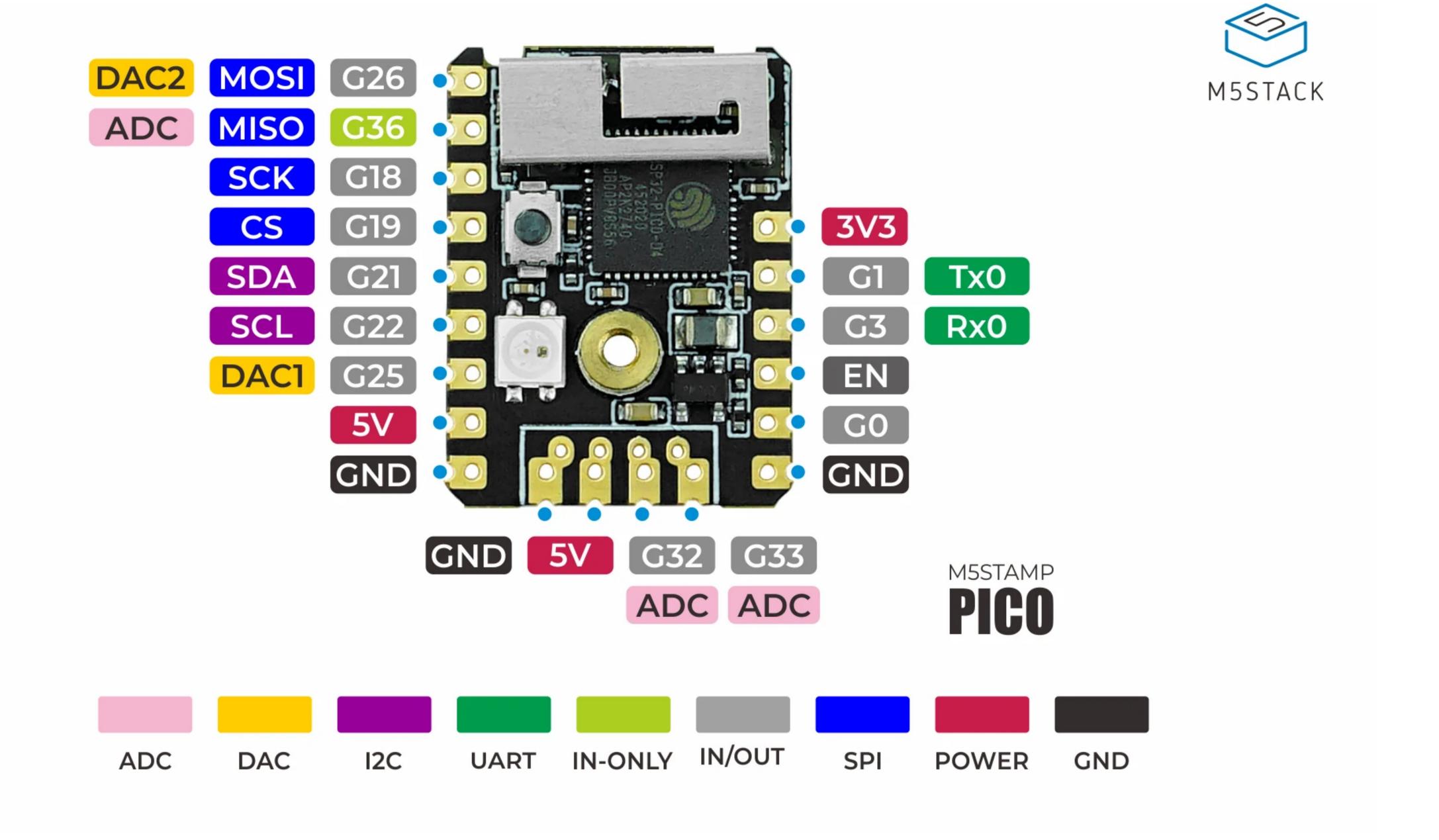
- Instrumentation
- Wi-Fi Remote Monitoring/Control
- Smart Home
- Color LED Control
- Fire/security intelligent integrated management
- Smart Card Terminal
- Wireless POS











Specification

Resources	Parameter Parame	
Master Control	ESP32-PICO-D4	
Resource		
Flash	4MB	
Input Voltage	5V @ 500mA	
Power consumption	Normal standby:5V@29mA, WIFI STA mode: 5V@60mA, Bluetooth mode data sending status: 5V@84mA, Deep-	
	sleep mode: 5V@0.35mA	
UI	Programmable physical keys x 1, Programmable RGB LED (SK6812) x 1	
Antenna Type	2.4G 3D Antenna	
WiFi	802.11 b/g/n (up to 150 Mbps for 802.11n), spectrum range: 2.4 GHz ~ 2.5 GHz	
Bluetooth	Blutooth V4.2 BR/EDR and BLE standard, NZIF receiver, sensitivity up to -97 dBm	
Module Resource	ADC, DAC, touch sensor, SD/SDIO/MMC host controller, SPI, SDIO/SPI slave controller, EMAC, motor PWM, LED	
Interface	PWM, UART, I2C, I2S, IR remote controller, GPIO, pulse counter	
IO interface x12	G0, G1, G3, G26, G36, G18, G19, G21, G22, G25, G32, G33	
IO interface spacing	2.54mm	
perating temperature	32°F to 104°F (0°C to 40°C)	
Net weight	2.6g	
M5Stamp Pico (5pcs)	18g	
Gross weight		

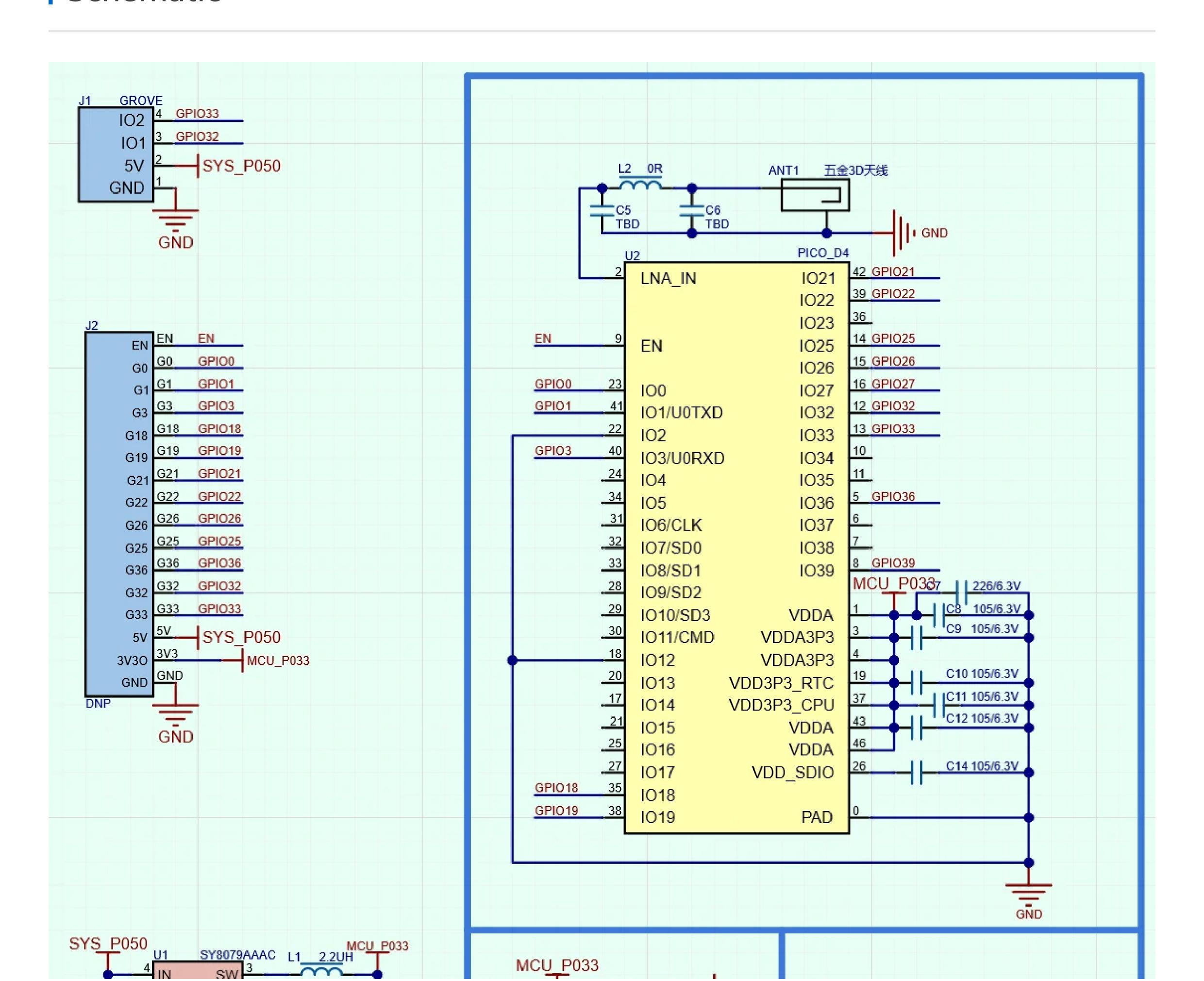
M5Stamp Pico Mate	Parameter	
Gross weight	6g	
M5Stamp Pico DIY	12~	
Kit Gross weight	12g	
Product Dimensions	18 * 24 * 4.4mm	
Package Size	85*55mm sealing bag (translucent)	

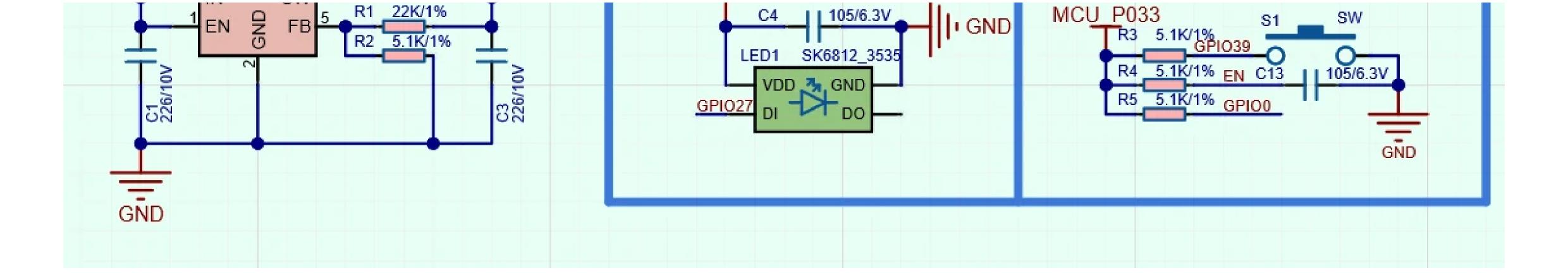
PinMap

SK6812 (RGB LED) and Button

ESP32	GPIO27	GPIO39
SK6812	DI	
Button		SW

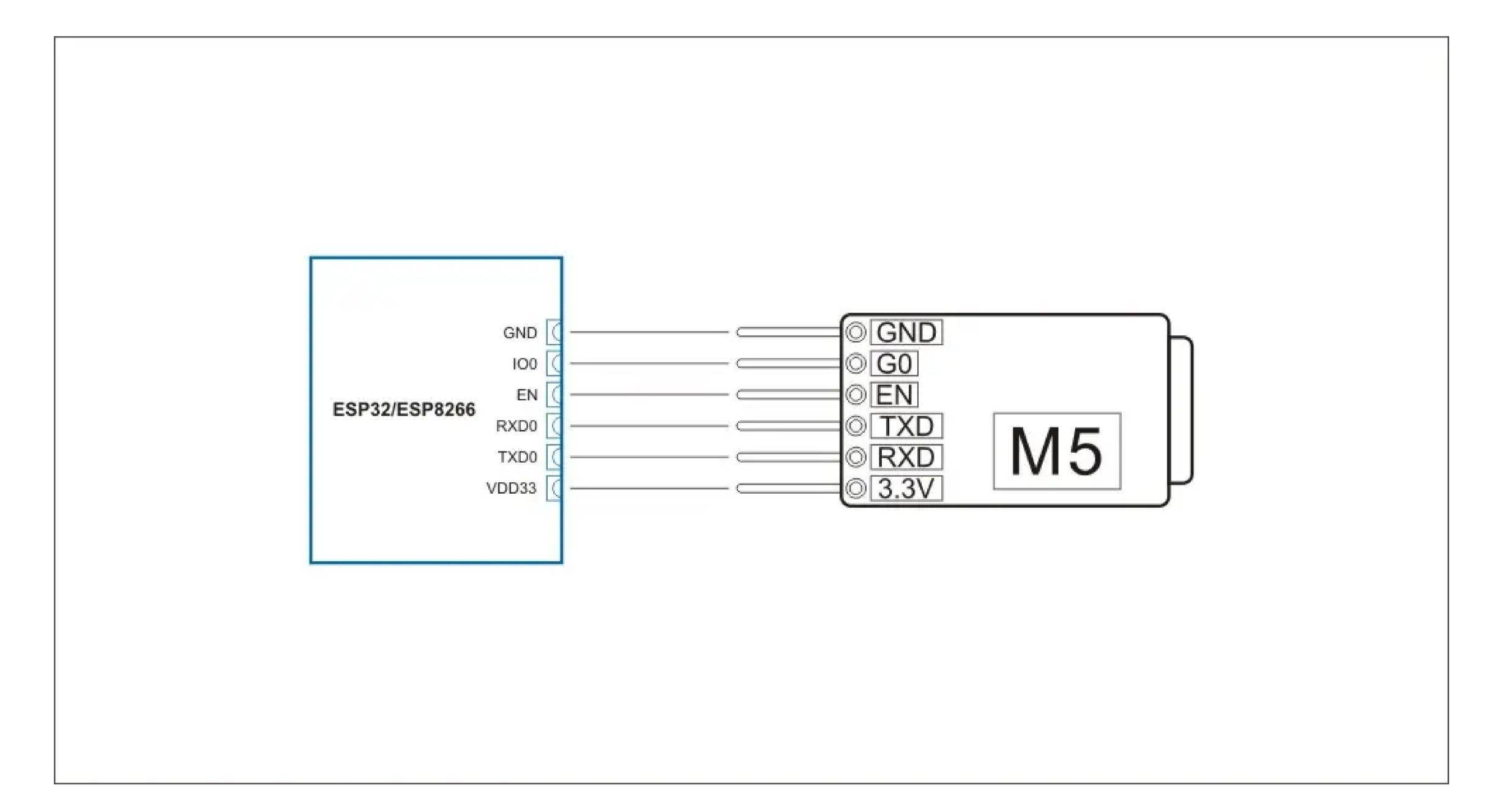
Schematic





Program Download

• STAMP-PICO adopts the most streamlined circuit design, so it does not include the program download circuit, users can download the program through the USB-TTL burner.



Related Link

Datasheet

• ESP32-PICO