

# M5Stamp C3U Mate with pin headers

The new M5Stamp C3U with the ESPRESSIF ESP32-C3 RISC-V MCU and Wi-Fi 5 (LE) connectivity is suitable for home applications and industrial automation. The combination of RSA-3072-based secure boot and the AES-128-XTS-based

**Product number** M5-K122

**Weight** 0.02kg



## Product description

The new M5Stamp C3U with the ESPRESSIF ESP32-C3 RISC-V MCU and Wi-Fi 5 (LE) connectivity is suitable for home applications and industrial automation. By combining RSA-3072 based secure boot and AES-128-XTS based flash encryption. Its compact size and powerful features make it suitable for numerous IoT scenarios.

The M5Stamp C3U is based on a 32-bit RISC-V microcontroller and operates at a maximum clock frequency of 160 MHz. With 400 KB internal RAM and 4 MB Flash, it can support many different use cases with connected devices. The M5Stamp C3U also offers an exceptionally heat-resistant plastic housing that can withstand higher operating temperatures.

## Specifications

ESP32-C3	32bit RISC-V single-core processor, clocked at 160 MHz
Memory	384KB ROM, 400KB SRAM, 8KB RTC SRAM, 4MB FLASH
Wi-Fi	2.4 GHz band supports 20 MHz and 40 MHz bandwidth, IEEE 802.11 b/g/n protocol, data rate up to 150 Mbps
Bluetooth	Bluetooth 5, Bluetooth Mesh, rate support 125 Kbps, 500 Kbps, 1 Mbps, 2 Mbps
Input voltage	5V @ 500mA
HMI	Programmable physical button x 1, reset debugging button x 1, programmable RGB LED (SK6812) x 1
USB interface	TypeC x1
Antenna type	2.4G 3D antenna
Module Peripheral interface resources	ADC, GPIO, SPI, UART, I2C, I2S, PWM, RMT, DMA, USB serial port, TWAI
IO interface x14	G0, G1, G3, G4, G5, G6, G7, G8, G9, G10, G18, G19, G21, G22
Distance of the IO interface	2.54mm
Net weight	3,8g
Product size	34 * 20 * 4.6mm
Package size	85*55mm sealing bag (translucent)

#### Documents and downloads

- [Wiki](#)

## Product properties

<b>Gross Weight (kg)</b>	0.020
<b>Zolltarifnummer</b>	85176200
<b>Country of Origin</b>	China
<b>Brand</b>	M5Stack
<b>Product ID</b>	M5-K122
<b>Manufacturer ID</b>	K122
<b>EAN</b>	6972934173423

## More images

