

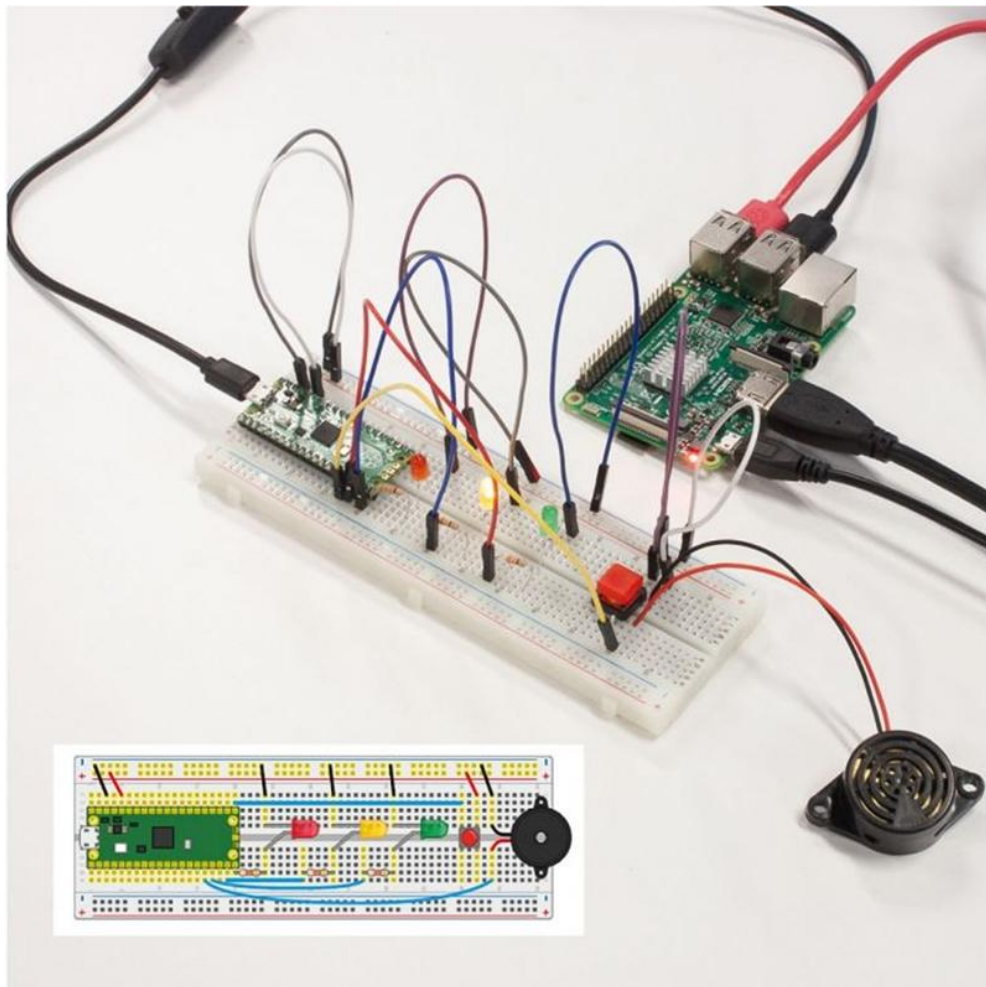
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# 1.Description

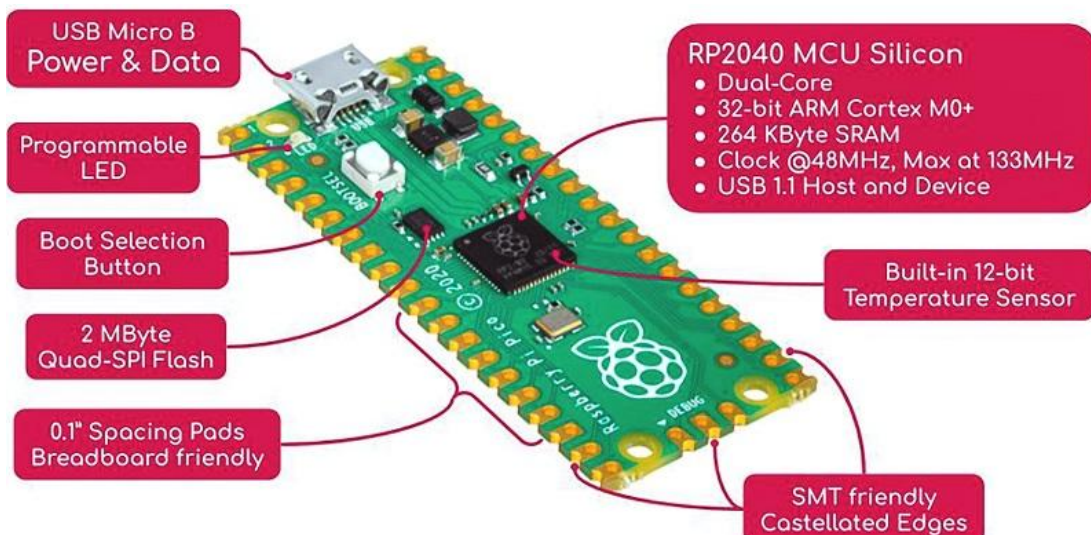
The Raspberry Pi Pico is a low-cost, high-performance microcontroller board with flexible digital interfaces. And it included **25 Raspi pico projects**. It features the RP2040 which marks Raspberry Pi's first microcontroller, it provides minimal external circuitry to support the RP2040 chip. Pico is born with powerful performance, reasonable price, and comprehensive resources, it will definitely become a great platform for learning and mastering electronic knowledge.

**Model:** **RPK120390**



## 2. Features

- Beginner-friendly tutorial book with codes.
- Great for both first-time Pico users and kids.
- Full SDK and datasheet references for experienced developers.
- Compatible with any of your favorite platforms and operating systems.



### 3. Detail of Pico

- 21 mm × 51 mm form factor
- RP2040 microcontroller chip designed by Raspberry Pi in the UK
- Dual-core Arm Cortex-M0+ processor, flexible clock running up to 133 MHz
- 264KB on-chip SRAM
- 2MB on-board QSPI Flash
- 26 multifunction GPIO pins, including 3 analog inputs
- 2 × UART, 2 × SPI controllers, 2 × I2C controllers, 16 × PWM channels
- 1 × USB 1.1 controller and PHY, with host and device support
- 8 × Programmable I/O (PIO) state machines for custom peripheral support
- Supported input power 1.8–5.5V DC
- Operating temperature -20°C to +85°C
- Castellated module allows soldering directly to carrier boards

- Drag-and-drop programming using mass storage over USB
- Low-power sleep and dormant modes
- Accurate on-chip clock
- Temperature sensor
- Accelerated integer and floating-point libraries on-chip

## **4.Package list**

- 1 × Raspberry Pi Pico with pin headers
- 1 × Active piezoelectric buzzer
- 1 × LCD1602 RGB Module
- 1 × Solderless breadboard
- 1 × Jumper Wire Set (65pcs)
- 1 × 8-Bit WS2812 RGB LED
- 3× Push-button switches.
- 15 × Colorful LEDs: 5pcs each in red, yellow, and green
- 1xUSB A/microB Cable (1.5m / 5 ft)
- 1 × 10 kΩ potentiometer
- 10 ×Dual Male Jumper Wire
- 10 ×Male-Female Jumper Wire

- 10 × 330  $\Omega$  resistors
- 2 × HC-SR501 PIR sensor

## 5.tutorial

### **Get Started with MicroPython on Raspberry Pi Pico**

<https://hackspace.raspberrypi.com/books/micropython-pico>