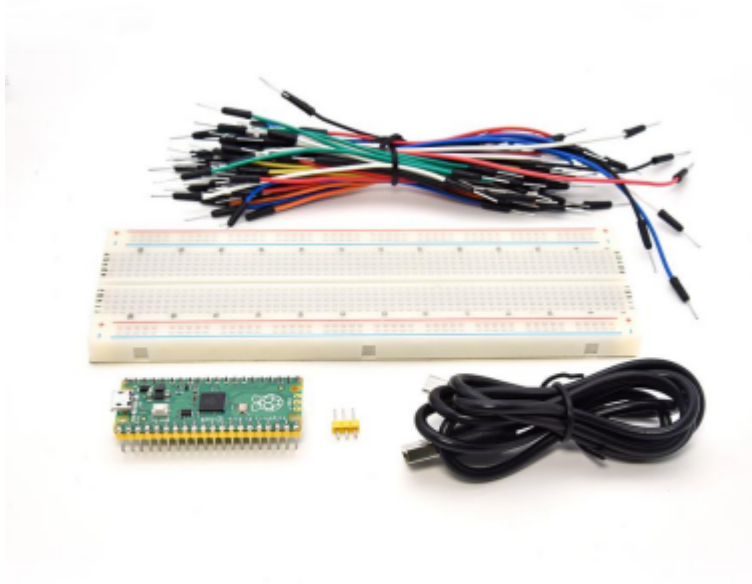


SMP0099 Raspberry Pi Pico Board



1. Description

Raspberry Pi Pico is a tiny, fast, and versatile board built using RP2040, a brand new microcontroller chip designed by Raspberry Pi in the UK. Designed by Raspberry Pi, RP2040 features a dual-core Arm Cortex-M0+ processor with 264KB internal RAM and support for up to 16MB of off-chip Flash. A wide range of flexible I/O options includes I2C, SPI, and – uniquely – Programmable I/O (PIO).

It also has more than 26 multi-functional GPIO pins.

For beginners or experts, they can program by C/C++ SDK or MicroPython. Detailed tutorials are provided, too. A vast of pins are soldered for better connection, and a USB cable is used for uploading test code.

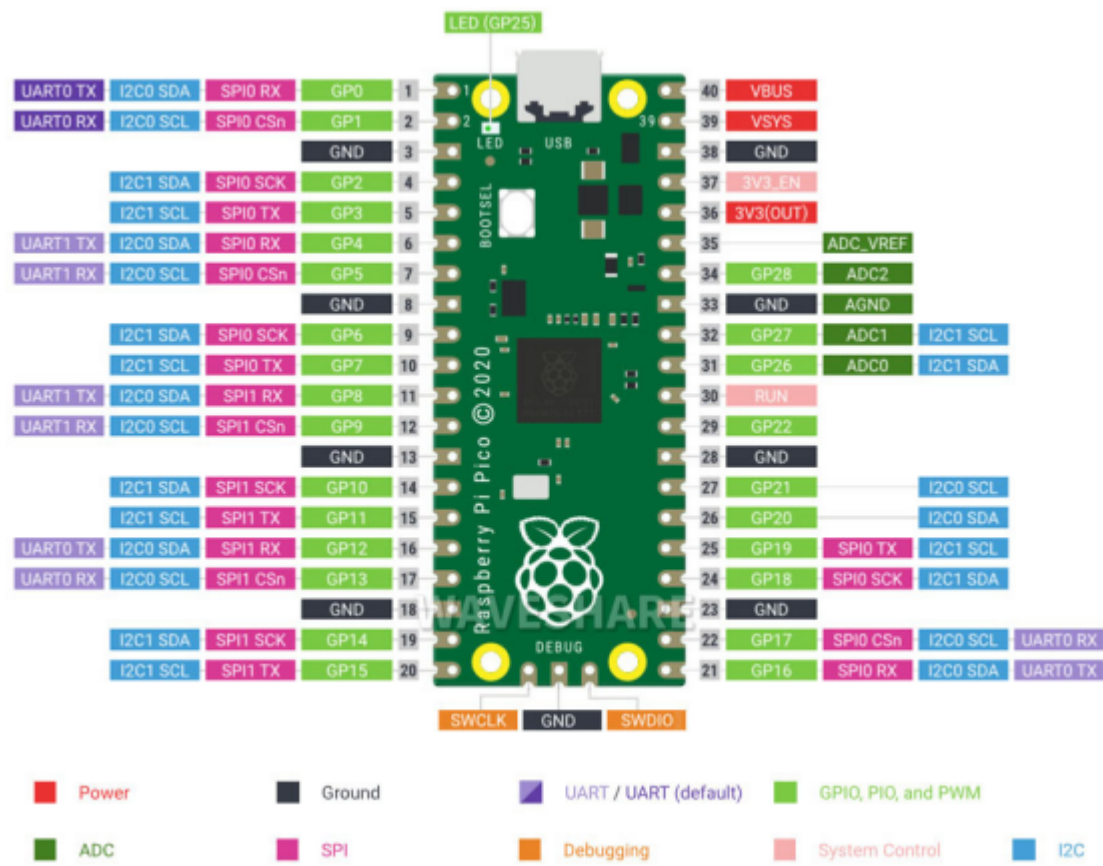
2. Performance

  latest ▼

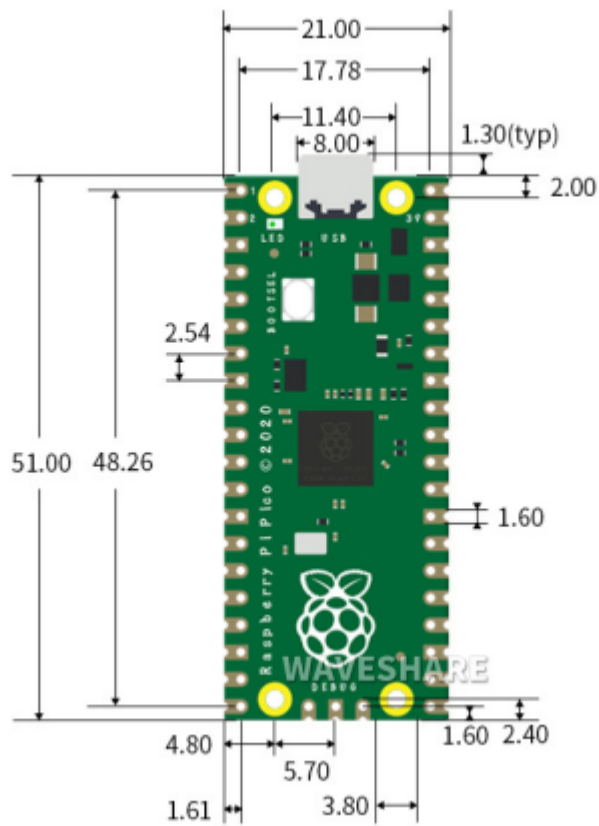
- RP2040 microcontroller chip designed by Raspberry Pi
- Dual-core ARM Cortex M0+ processor, flexible clock running up to 133 MHz

- 264kB of SRAM, and 2MB of on-board Flash memory
- Castellated module allows soldering direct to carrier boards
- USB 1.1 Host and device support
- Low-power sleep and dormant modes
- Drag & drop programming using mass storage over USB
- 26 multi-function GPIO pins
- 2×SPI, 2×I2C, 2×UART, 3×12-bit ADC, 16×controllable PWM channels
- Accurate on-chip clock and timer
- Temperature sensor
- Accelerated floating point libraries on-chip
- 8×Programmable IO (PIO) state machines for custom peripheral support

3. Pin out



4. Dimension



Unit:mm