

Raspberry Pi Pico 2 W

Raspberry Pi · MPN SC1634 · category: controller

Canonical record: <https://partsgraph.ai/catalog/parts/rpi-pico-2-w>

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PERFORMANCE

On-chip SRAM: **520 KB** · vendor page

Microcontroller: **RP2350** · vendor page

CPU configuration: **Dual Arm Cortex-M33 or dual RISC-V Hazard3 processors** · vendor page

Flash type: **QSPI flash** · vendor page

Security architecture: **Arm TrustZone for Cortex-M** · vendor page

Antifuse OTP for key storage: **8 KB** · vendor page

SHA-256 acceleration: **Yes** · vendor page

Hardware TRNG: **Yes** · vendor page

Signed boot support: **Yes** · vendor page

Fast glitch detectors: **Yes** · vendor page

INTERFACE

Bluetooth: **Bluetooth 5.2** · vendor page

USB: **USB 1.1** · vendor page

UART controllers: **2** · vendor page

PWM channels: **24** · vendor page

SPI controllers: **2** · vendor page

I2C controllers: **2** · vendor page

PIO state machines: **12** · vendor page

ADC-capable GPIO pins: **3** · vendor page

USB host and device support: **Yes** · vendor page

Connector for power/programming: **micro-USB connector** · vendor page

Wi-Fi standard: **802.11n** · vendor page

Programming languages: **C / C++ and Python** · vendor page

Same GPIO pinout as original Pico: **Yes** · vendor page

MECHANICAL

Form factor: **21 mm x 51 mm** · vendor page

Micro-USB cable included: **No** · vendor page

ENVIRONMENT

Operating temperature: **-20–85 °C** · vendor page

COMPLIANCE

In production until at least: **January 2040** · vendor page

GENERAL

Input voltage (VSYS): **1.8–5.5 V** · datasheet p.5

Cores: **Cortex-M33** · datasheet p.3

Clock: **150 MHz** · datasheet p.14

Flash: **4 MB** · datasheet p.4

Wireless: **2.4GHz** · datasheet p.4

Multi-function GPIO: **26** · datasheet p.4

INDICATIVE PRICES

The Pi Hut: £6.70 GBP · as of 2026-08-22 · <https://thepihut.com/products/raspberry-pi-pico-2-w>

Pimoroni: £6.60 GBP · as of 2026-08-22 · <https://shop.pimoroni.com/products/raspberry-pi-pico-2-w>

Prices are indicative and dated, captured only from vendors' machine-stated markup. Availability is never claimed.

SOURCES — THE AUTHORITATIVE DOCUMENTS

Pico 2 W datasheet: <https://pip-assets.raspberrypi.com/categories/1088-raspberry-pi-pico-2-w/documents/RP-008304-DS-3-pico-2-w-datasheet.pdf>

sha-256 8f519b945e9f7078ffd3fee464992fca376d8037ebcd1f83bd2a021241717eb2

RP2350 datasheet: <https://pip-assets.raspberrypi.com/categories/1214-rp2350/documents/RP-008373-DS-2-rp2350-datasheet.pdf>

sha-256 2877d0f270fb6d6a57943bee58aaad536aa027bea1e5b1c4ce2541a3230d4be8

The Pi Hut product page: <https://thepihut.com/products/raspberry-pi-pico-2-w>

Pimoroni product page: <https://shop.pimoroni.com/products/raspberry-pi-pico-2-w>

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