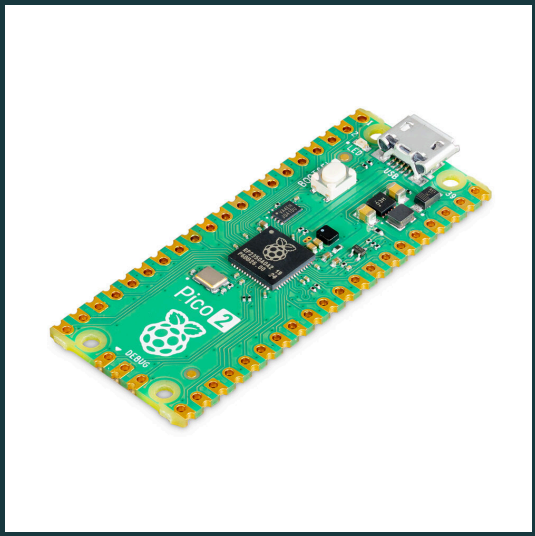
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INDUSTRIAL PRODUCT DATASHEET

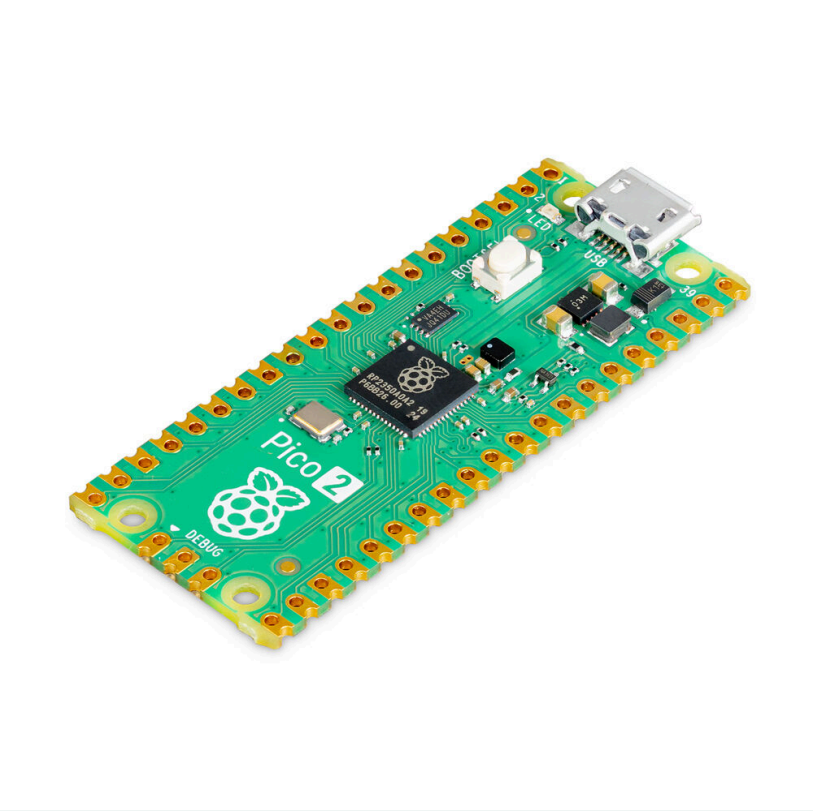
Raspberry Pi Pico 2

Raspberry Pi Pico 2: high-performance RP2350, dual-core, 520KB SRAM, 4MB Flash, and secure for IoT and machine learning.

SKU	UPDATED	PRICE
102111004	2026-05-19 06:14:57	$5.00(Excl. VAT)



Overview

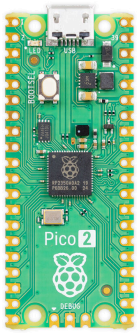


The Raspberry Pi Pico 2 integrates an RP2350 microcontroller at 150MHz with dual-core Arm Cortex-M33 or RISC-V Hazard3 options, 520KB SRAM, and 4MB Flash. Enhanced security, C/C++ and Python support, and backward compatibility enable applications in intruder detection, home facilities control, machine learning, and IoT.

Key Features

- **High-Performance Chip**: High-performance RP2350 microcontroller with a clock speed of up to 150MHz
- **Double Memory**: Doubled on-board SRAM capacity, reaching 520KB
- **Double Storage**: Doubled on-board Flash storage capacity, reaching 4MB
- **Dual-Core Architecture**: Choose between the more powerful Arm Cortex-M33 cores or open-source RISC-V Hazard3 cores
- **Enhanced Security**: Comprehensive security architecture, supporting secure boot, hardware encryption, and more
- **Easy to Develop**: Supports C/C++ and Python programming, lowering the development barrier
- **Backward Compatible**: Hardware and software compatible with the Raspberry Pi Pico 1

Product Gallery

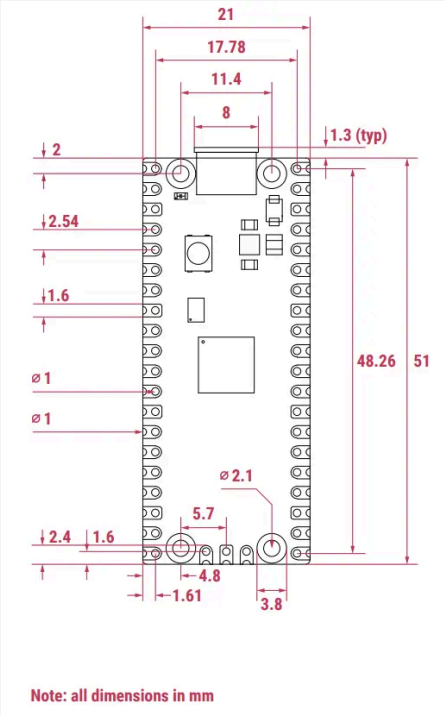


Specification

Parameter	Description
Form factor	21 mm × 51 mm
CPU	Dual Arm Cortex-M33 or dual RISC-V Hazard3 processors @ 150MHz
Memory	520 KB on-chip SRAM; 4 MB on-board QSPI flash
Interfacing	26 multi-purpose GPIO pins, including 4 that can be used for ADC
Peripherals	2 × UART 2 × SPI controllers 2 × I2C controllers 24 × PWM channels 1 × USB 1.1 controller and PHY, with host and device support 12 × PIO state machines
Input power	1.8–5.5V DC
Operating temperature	-20°C to +85°C
Supported input power	1.8–5.5V DC

On-chip resources	Accelerated floating point libraries on-chip

Hardware Overview



Applications

- **Intruder Detection**
- **Home facilities control connect with other wireless microcontrollers**
- **Machine Learning Application**
- **IoT Application**

Part List

Raspberry Pi Pico 2	x1

Compliance & Logistics

HSCODE	8473309000
USHSCODE	8473309100
UPC	
EUHSCODE	8471800000
COO	Japan

Resource Links

- https://www.seeedstudio.com/Raspberry-Pi-Pico-2-p-5940.html
- Raspberry Pi Pico 2 product brief
- Raspberry Pi Pico 2 MicroPython SDK
- Raspberry Pi Pico 2 C/C++ SDK
- Documents - Product Information Portal - Raspberry Pi

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