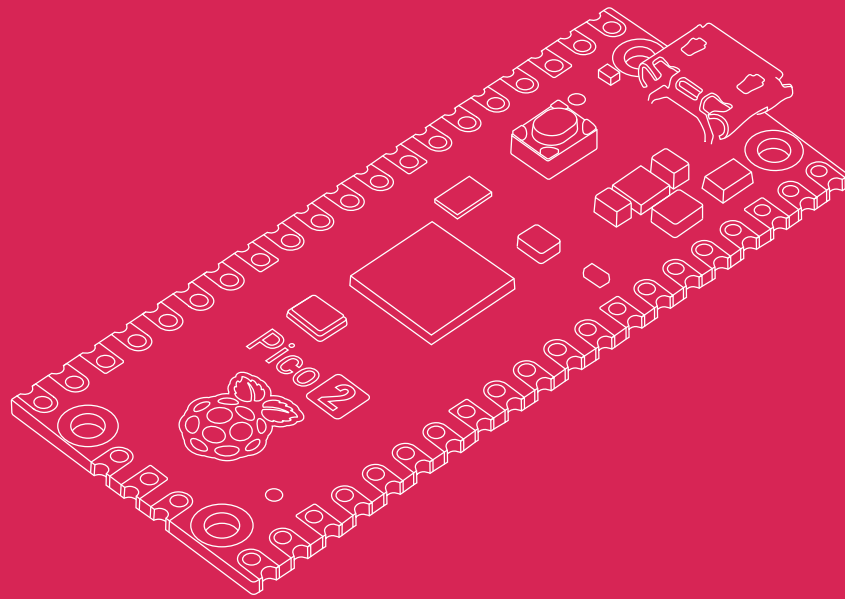


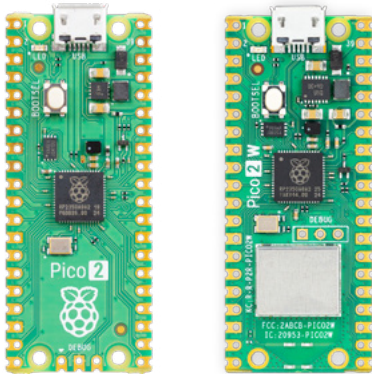


Raspberry Pi Pico 2 series

Published March 2026



Overview



The Raspberry Pi Pico 2 series of microcontroller boards starts at \$5 and is built on RP2350: our high-performance, secure microcontroller. With a higher core clock speed, double the on-chip SRAM, double the on-board flash memory, more powerful Arm cores, optional RISC-V cores, new security features, and upgraded interfacing capabilities, the Raspberry Pi Pico 2 series delivers a significant performance and feature boost over the first Raspberry Pi Pico, while retaining hardware and software compatibility with earlier members of the Raspberry Pi Pico family.

RP2350 provides a comprehensive security architecture, built around Arm TrustZone for Cortex-M, and incorporating signed boot, 8KB of antifuse OTP for key storage, SHA-256 acceleration, a hardware TRNG, and fast glitch detectors. These features, including the secure boot ROM, are extensively documented and available to all users without restriction: this transparent approach, which contrasts with the “security through obscurity” offered by legacy vendors, allows professional users to integrate RP2350, and Raspberry Pi Pico 2 series boards, into products with confidence.

The unique dual-core, dual-architecture capability of RP2350 allows users to choose between a pair of industry-standard Arm Cortex-M33 cores, and a pair of open-hardware Hazard3 RISC-V cores. Programmable in C/C++ and Python, and with detailed documentation, Raspberry Pi Pico 2 series boards are ideal for enthusiasts and professional developers alike.

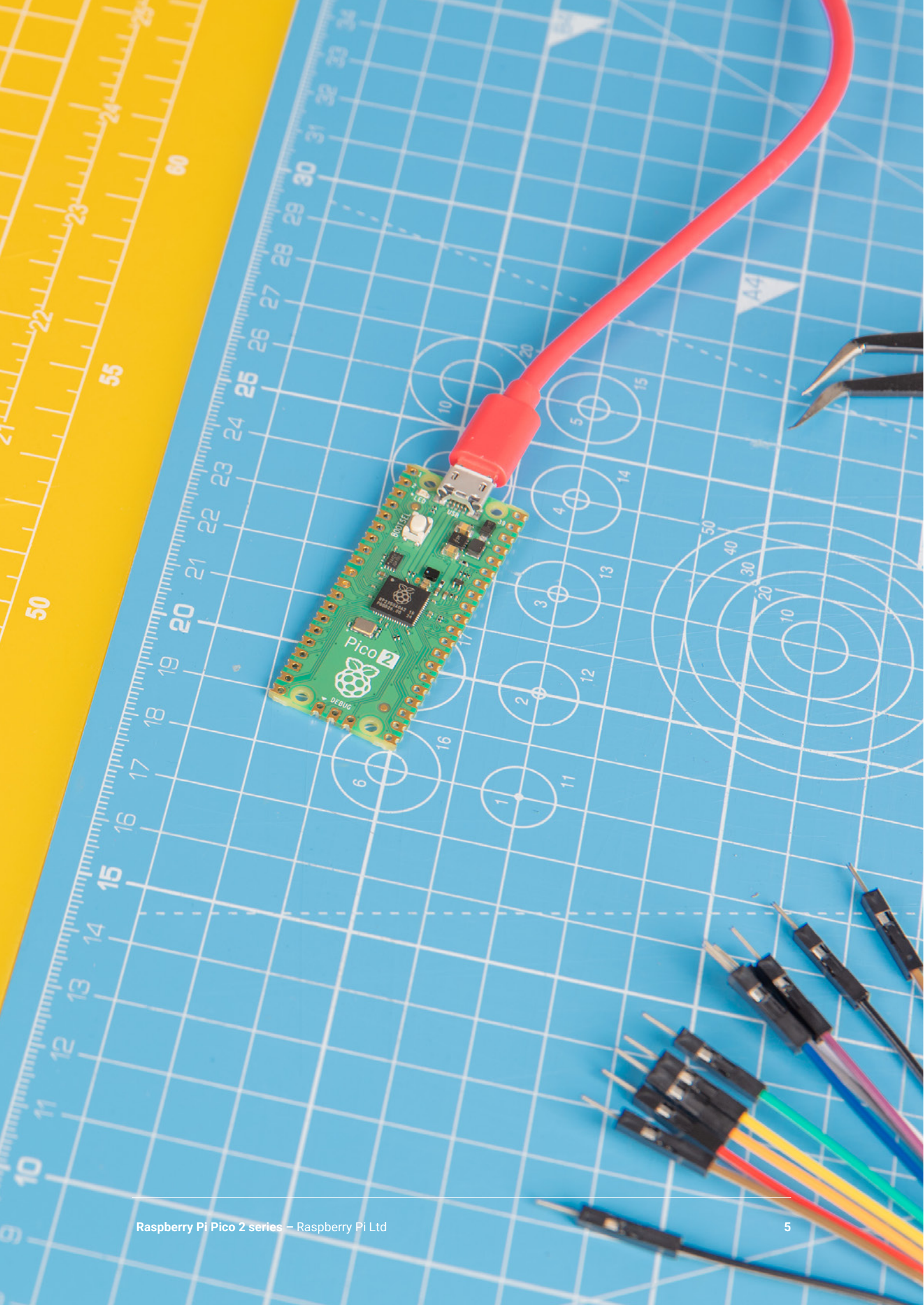
Wireless variant Raspberry Pi Pico 2 W offers 2.4GHz 802.11n wireless LAN and Bluetooth 5.2, with an on-board antenna, and modular compliance certification.

Raspberry Pi Pico 2 series boards are available as individual units, or in 480-unit reels.

Specification

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
Connectivity:	2.4GHz 802.11n wireless LAN and Bluetooth 5.2 (Raspberry Pi Pico 2 W only)
Interfacing:	26 multi-purpose GPIO pins, including 3 that can be used for ADC
Peripherals:	<ul style="list-style-type: none">• 2 × UART• 2 × SPI controllers• 2 × I2C controllers• 16 × 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
MTBF¹ Ground Benign:	182 000 hours
Production lifetime:	Raspberry Pi Pico 2 will remain in production until at least January 2040
Compliance:	For a full list of local and regional product approvals, please visit pip.raspberrypi.com
List Price:	Pico 2 – \$5 Pico 2 W – \$7

¹ Mean Time Between Failure





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