

\*\*\*\*\*Draft\*\*\*\*\*

**Raspberry Pico. 2021**

**Motorola 68000 1980**

**07/22/22**

\*\*\*\*\*Draft\*\*\*\*\*

Raspberry Pico-W

This version same pico but now supports WIFI.

The pico-sdk provides several examples.

iperf

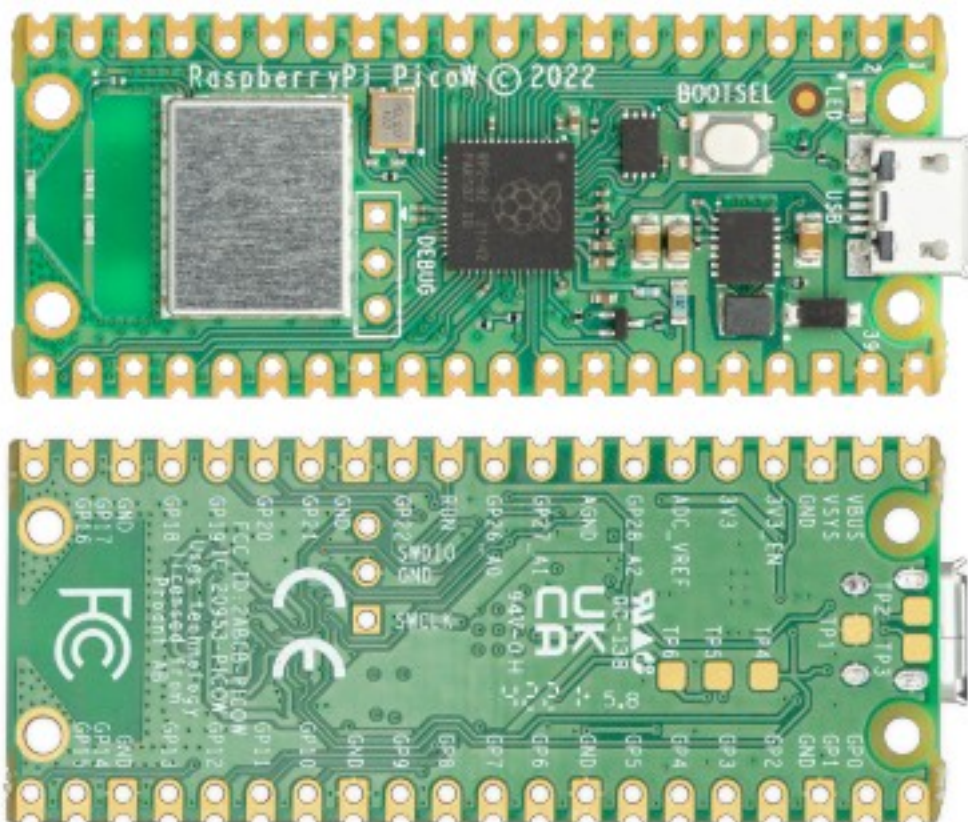
ntp\_client

tcp\_client

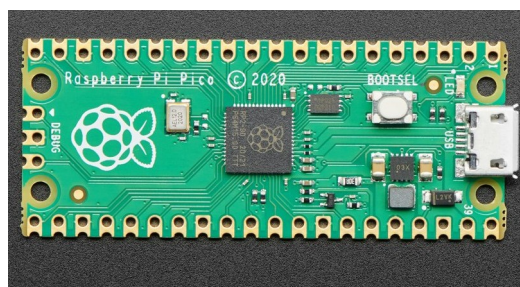
tcp\_server

/access\_point

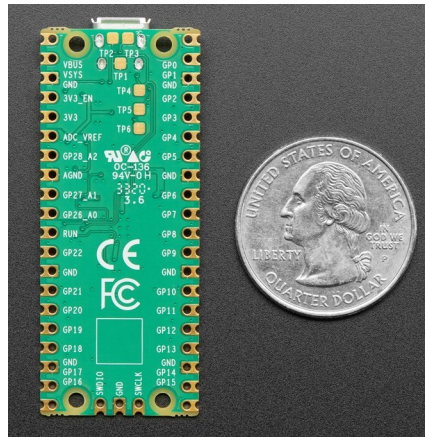
wifi\_scan



Raspberry Pico.



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## Raspberry Pi Pico RP2040

Product ID: 4864

\$4.00

- 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 analogue 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 direct 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

The Motorola 68000 Educational Computer Board (MEX68KECB) was a development board for the Motorola 68000 microprocessor, introduced by Motorola in 1981. It featured the 68K CPU, memory, I/O devices and built-in educational and training software.

CPU: 4-MHz Motorola 68000

RAM: 32KB

ROM: 16KB

9600 baud serial port for dumb terminal connection

9600 baud serial port for host computer connection  
Parallel port for communication and printer connection  
Audio output for tape storage  
24-bit programmable interval timer  
Wire-wrap area for custom circuitry  
Required power voltage: 12V and 5V

The price of the Motorola ECB at launch was \$495[1] which was relatively inexpensive for a computer with an advanced for that time 16-bit CPU.

A Motorola  
MEX68KECB  
Microcomputer, circa  
1981. This  
microcomputer is  
based on a  
Motorola 68000  
16/32-bit  
microprocessor.

