Raspberry Pico

<https://www.conrad.be/nl/p/raspberry-pi-5-b-8-gb-4-x-2-4-ghz-raspberry-pi-2980040.html> De 8gb versie is nog schappelijk (117€)

comparison arduino versus raspberry pi:



Verkennen

The main differences between Arduino and Raspberry Pi are:

1. [**Microcontroller vs Microprocessor**: Arduino boards are micro-controllers, while Raspberry Pi boards are microprocessors](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[1](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/).
2. [**Operating System**: Raspberry Pi has its own operating system, while Arduino boards do not have one](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[1](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/).
3. [**Instructions**: The Arduino board works on simple instructions provided to them by IDE (Integrated Development Environment), while Raspberry Pi runs a full version of Linux, such as Raspbian](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[1](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/).
4. [**Community and Expansion**: Arduino has a massive support community as well as hundreds of expansion options](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[1](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/).
5. [**Suitability**: Arduino is more suited for projects like LED controllers, alarm systems, robots, weather stations, and hardware hacks; and the Raspberry Pi is perfect for things like a NAS server, web server, gaming emulator, media center and magic mirror](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[1](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/).
6. **I/O Capability**: Arduino tends to have a strong I/O capability which drives external hardware directly. [Whereas Raspberry Pi has a weak I/O which requires transistors to drive the hardware](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).
7. [**Cost**: Arduino Uno’s cost is lower than Raspberry Pi because Raspberry Pi needs extra peripherals such as an SD card, Monitor, Keyboard, and mouse](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[3](https://www.makerguides.com/arduino-vs-raspberry-pi-what-is-the-difference-between-arduino-and-raspberry-pi/).
8. [**CPU Architecture**: Arduino has an 8-bit CPU architecture while Raspberry Pi has a 64-bit CPU architecture](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).
9. [**RAM**: Arduino uses very little RAM (2 kB), while Raspberry Pi requires more RAM (1 GB)](https://www.interviewbit.com/blog/arduino-vs-raspberry-pi/)[2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).
10. [**Processing Speed**: Arduino clocks a processing speed of 16 MHz, while Raspberry Pi clocks a processing speed of 1.4 GHz2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).
11. [**Power Consumption**: Arduino consumes about 200 MW of power, while Raspberry Pi consumes about 700 MW of power2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).
12. [**Logic Level**: Arduino’s logic level is 5V, while Raspberry Pi’s logic level is 3V2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).
13. [**Internet Support**: Arduino does not have internet support, while Raspberry Pi has inbuilt Ethernet port and WiFi support2](https://www.geeksforgeeks.org/difference-between-arduino-and-raspberry-pi/).