

Microcontrollers

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ESP8266

The ESP8266 is a microcontroller by Espressif.

Properties

<i>Property</i>	<i>Value</i>
Nominal Voltage	3.3 V
CPU	32 bit CPU
Connectivity	2.4 GHz Wifi, Bluetooth
ADC	1 10-bit ADC with max 1.0 Volt
Pins	GPIO Pins, I2C, SPI, UART

Boards

NodeMCU 1.0

The NodeMCU 1.0 is a popular development board for working with the ESP8266 (Often with the variant ESP-12E). It has the following properties:

- A USB interface (usual Micro USB)
- USB-To-UART Chip (CH340 or CP2102)
- Voltage regulator for 3.3 V
- Reset and Flash button
- Breadboard friendly pins
- 4MB Flash memory

Raspberry Pi Pico

Pinout

A good website to look at the pinout: <https://pico.pinout.xyz/>