D1 mini Pro
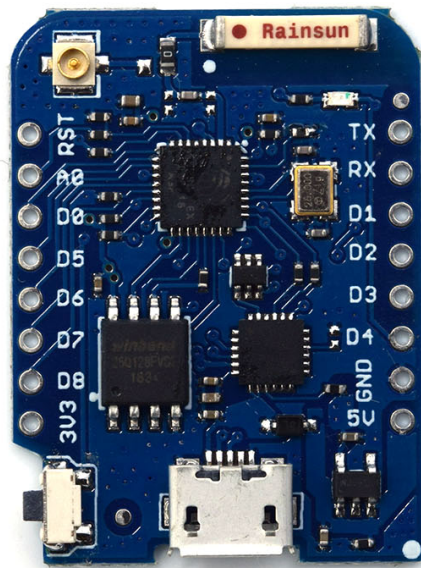
A mini wifi board with 16MB flash, external antenna connector and built-in ceramic antenna based on ESP-8266EX.

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Features

- 11 digital input/output pins
- Interrupt/pwm/I2C/one-wire
- 1 analog input(3.2V max input)
- 16M bytes(128M bit) Flash
- External antenna connector
- Built-in ceramic antenna
- New CP2104 USB-TO-UART IC
- Same size as D1 mini, but more light

Tutorials

- Get started in Arduino
- Get started in NodeMCU

Documentation

- Schematic V1.0.0
- Driver (https://www.silabs.com/products/mcu/Pages/USBtoUARTBridgeVCPDrivers.aspx)

Technical specs

Microcontroller	ESP-8266EX
Operating Voltage	3.3V
Digital I/O Pins	11
Analog Input Pins	1(Max input: 3.2V)
Clock Speed	80MHz/160MHz
Flash	16M bytes
Length	34.2mm
Width	25.6mm
Weight	2.5g

Pin

Pin	Function	ESP-8266 Pin
TX	TXD	TXD
RX	RXD	RXD
A0	Analog input, max 3.3V input	A0
D0	IO	GPIO16
D1	IO, SCL	GPIO5
D2	IO, SDA	GPIO4
D3	IO, 10k Pull-up	GPIO0
D4	IO, 10k Pull-up, BUILTIN_LED	GPIO2
D5	IO, SCK	GPIO14
D6	IO, MISO	GPIO12
D7	IO, MOSI	GPIO13
D8	IO, 10k Pull-down, SS	GPIO15
G	Ground	GND
5V	5V	-
3V3	3.3V	3.3V
RST	Reset	RST

> All of the IO pins have interrupt/pwm/I2C/one-wire support except D0.

> All of the IO pins run at 3.3V.

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