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D1

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(https://www.wemos.cc/sites/default/files/2016-09/d1_1_3.jpg)



Description: An Arduino UNO Compatible wifi board based on ESP8266EX.

Features:

- 11 digital input/output pins, all pins have interrupt/pwm/I2C/one-wire supported(except for **D0**)
- 1 analog input(3.2V max input)
- Micro USB connection
- Power jack, 9-24V power input.
- Compatible with Arduino (<https://github.com/esp8266/Arduino>)
- Compatible with nodemcu (<http://www.nodemcu.com/>)

Tutorial:

- Get started in Arduino (<http://test.wemos.cc/tutorial/get-started-arduino.html>)
- Get started in NodeMCU (<http://test.wemos.cc/tutorial/get-started-nodemcu.html>)

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	4M bytes
Length	68.6mm
Width	53.4mm
Weight	25g

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.

Driver:

- CH340G (/downloads) USB to UART driver

Documents:

 Schematic (https://www.wemos.cc/sites/default/files/2016-09/D1_r2.pdf) 53.3 KB

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