

35097-MP

D1 WiFi Arduino UNO Development Board

The D1 is a special Arduino UNO-R3 clone board with built in WiFi. Same size, pin layout and programming as the UNO.

Most all of the shields which can be used with the UNO, will plug in seamlessly with the D1.

Features:

Programs Using Arduino IDE (www.arduino.cc)

Wide Range Power Supply Input: 9-24VDC

On-board 3.3V regulator

ESP8266EX Inbeded WiFi Processor

CH340G USB/UART Bridge (Driver search on Google)

Micro USB Jack

Reset Button

NOTE: The shields must have matching libraries that work with the esp8266 platform so as to be able to establish easy communication between the D1 and the shield.

Instead of using any of the Atmel/AVR series of microcontroller, the board uses the ESP8266EX chip. some of the features of the ESP8266EX chip include;

Embedded WiFi

32-bit RISC CPU

80Mhz clock speed

64kb Instruction RAM

96kb Data RAM

4-8MB flash memory

16 GPIO pins including I2C, I2S and SPI

1 Analog to Digital Converter port

USEFUL LINKS

https://wiki.wemos.cc/tutorials:get_started:get_started_in_arduino

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D1 WiFi Arduino UNO Development Board

- Based On: ESP-8266EX
- The D1 is Arduino UNO Compatible, Programs with Arduino IDE
- 11 x I/O Pins
- 1 x ADC Pin (Input Range 0-3.2V)
- Support OTA Wireless Upload
- Onboard 5V 1A Switching Power Supply (Max Input Voltage 24V)
- SPI, I2C, 1-wire USB (WCH CH340G Bridge)

SPECIFICATIONS

CPU	ESP-8266EX
Operation V	3.3V
Input Voltage	6-24V
I/O Pins	11
AD Input Range	0-3.3V
Flash	4MB
SRAM	32KB
DRAM	80KB
Clock Freq.	80MHz/160Mhz
WiFi Standard	802.11 b/g/n
Size	Arduino UNO3
Weight	21g

PINOUT

PIN	DISCRIPTION	IC I/O
D0(RX)	Serial Receive	GPIO3
D1(TX)	Serial Transmit	GPIO1
D2	I/O, Inter. Not Supported, PWM,I2C &1-wire	GPIO16
D3/SCL/D15	I/O, Default Mode, I2C of SCL	GPIO5
D4/SDA/D14	I/O, Default Mode, I2C of SDA	GPIO4
D5/SCK/D13	I/O, SPI Clock	GPIO14
D6/MISO/D12	I/O, SPI of MISO	GPIO12
D7/MOSI/D11	I/O, SPI of MOSI	GPIO13
D8	I/O,PullUp,LowLevel,EnterFLASH Mode	GPIO0
D9/TX1	I/O, Pull Up	GPIO2
D10/SS	I/O Pull Down, SPI Default Chip (SS)	GPIO15
A0	AD Input, 0-3.3V	ADC

- All IO working level 3.3V, can withstand 5V
- Except D2, all I/O support interrupts, PWM,I2C, and 1-wire

Hardware Package: <http://pan.baidu.com/s/1qWUSNrY>

This is Safe Chinese site This download is large (240+mb) and contains a large amount of Arduino Material that may or may not benefit you
BEST Bet is to Download Arduino IDE from www.Arduino.cc

After installing the hardware package, develop directly with the

Arduino IDE and operate the WiFi Arduino board as `mcu`kci`X Ub``

Arduino UNO

SCREEN SHOTS OF IDE







