D1 Mini Pro
Datenblatt

Content:

1. Specifications

Operating Voltage	**3.3V**
Main Chip	**ESP8266EX**
Clock Speed	**80MHz (160MHz)**
Flash	**4 MB**
Digital I/O Pins	11
Input Analog Pins	1
Analog Input Voltage Range	**from 0V to 3.3V**
USB Port	**micro USB**
USB Chip	**CP2104**
Max. current draw for single digital I/O pin	**12 mA**
Dimensions	25 mm x 35 mm x 6 mm [0.98 in x 1.4 in x 0.24 in]

2. Features

- 802.11 b/g/n
- Integrated low power 32-bit MCU
- Integrated 10-bit ADC
- Integrated TCP/IP protocol stack
- Integrated TR switch, balun, LNA, power amplifier and matching network
- Integrated PLL, regulators, and power management units
- Supports antenna diversity
- Wi-Fi 2.4 GHz, support WPA/WPA2
- Supports STA/AP/STA+AP operation modes
- Supports Smart Link Function for both Android and iOS devices
- SDIO 2.0, (H) SPI, UART, I2C, I2S, IRDA, PWM, GPIO
- STBC, 1 x 1 MIMO, 2 x 1 MIMO
- A-MPDU & A-MSDU aggregation and 0.4s guard interval
- Deep sleep power < 10μA, power down leakage current < 5μA
- Wake up and transmit packets in < 2ms
- Standby power consumption of < 1.0mW (DTIM3)
- +20dBm output power in 802.11b mode
- Operating temperature range: -40 °C ~ 125 °C

3. Pinout

The D1 Mini Pro module has two rows of eight pins (sixteen pins in total). The pinout is shown on the following image:

Digital ports
Digital ports (supports PWM)
Analog Input 10 bits, 0 to 3.3V
I2C bus (Wire)
SPI bus
Serial interfaces
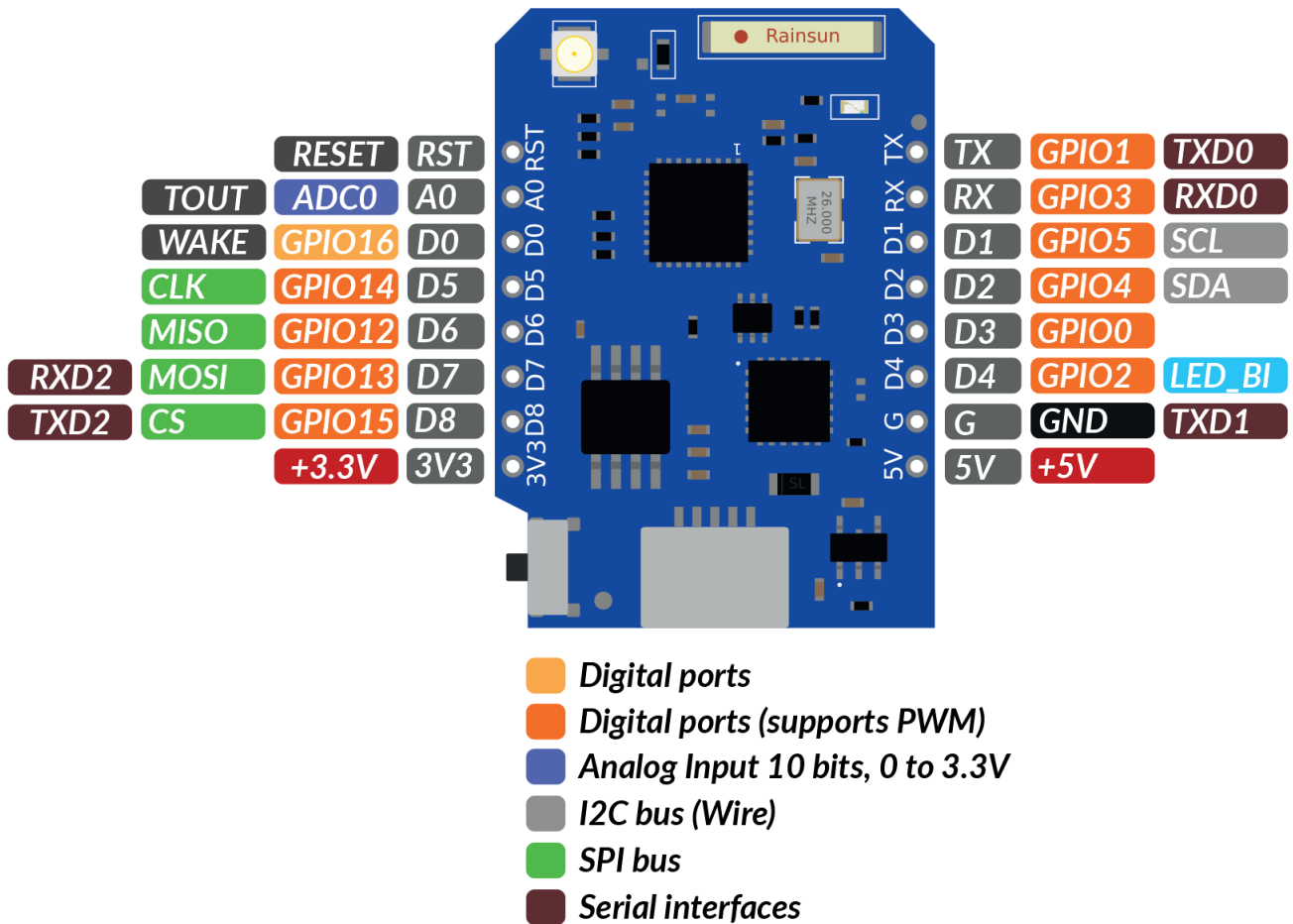
Note: The D1 Mini Pro module has a 5V voltage output pin to power the external electronic devices connected to it, but it is not 5V tolerant! The 5V pin is power output pin, which outputs power from the microUSB port.

Note: The D1 Mini Pro module also has a 3.3V voltage output pin for powering external electronic devices. This is regulated 3.3V from the on-board 3.3V voltage regulator.