AZ-Delivery

Ihr Experte für Mikroelektronik!

D1 Mini ESP32
Datenblatt
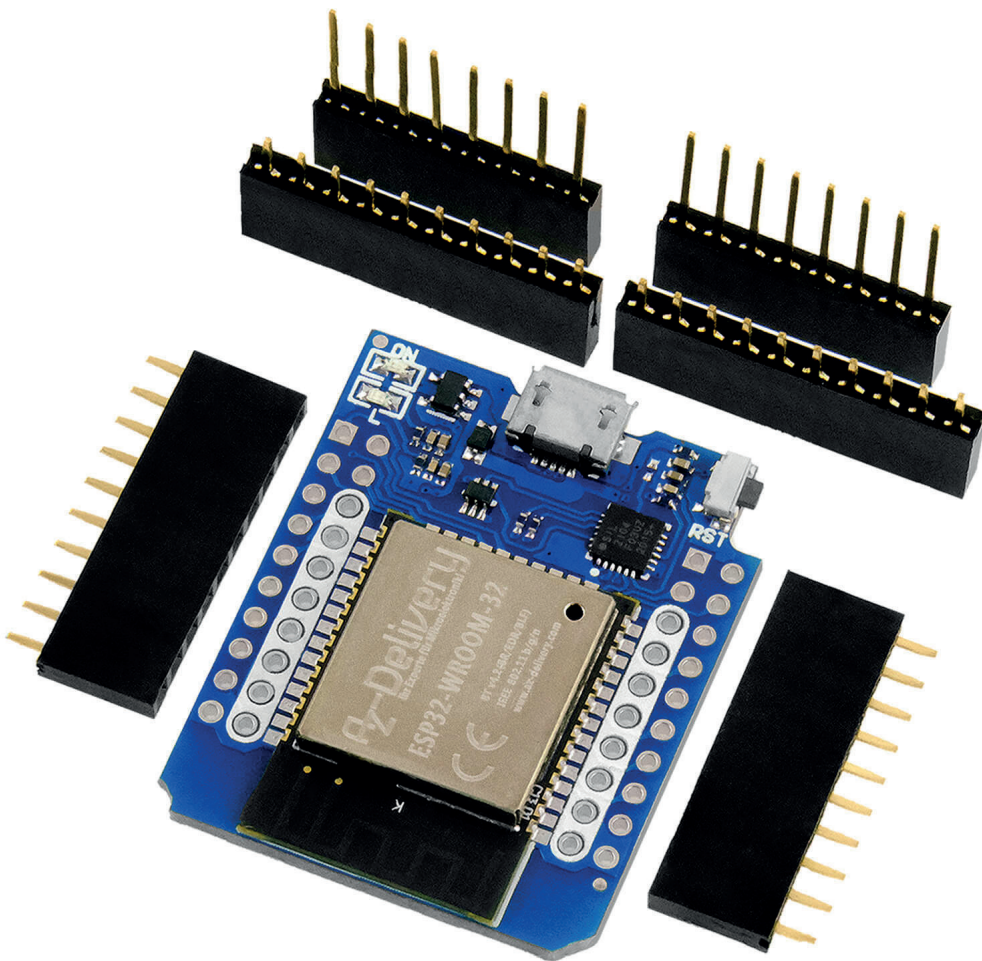
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1. Specifications

Power supply voltage (USB)	5V DC
Input/Output voltage	3.3V DC
Operating current required	min. 500mA
SoC	ESP32-WROOM-32
CPU	Xtensa® single-dual-core 32-bit LX6
Chipset	ESP32-D0WDQ6
Clock frequency range	80MHz / 240MHz
RAM	512kB
External flash memory	4MB
I/O pins	34
ADC channels	18
ADC Resolution	12-bit
DAC channels	2
DAC Resolution	8-bit
Communication interfaces	SPI, I2C, I2S, CAN, UART
Max. current drawn per GPIO pin	40mA
Wi-Fi protocols	802.11 b/g/n (802.11n up to 150 Mbps)
Wi-Fi frequency	2.4 GHz - 2.5 GHz
Bluetooth	V4.2 - BLE and Classic Bluetooth
Wireless antena	PCB
USB to serial chip	CP2104
Dimensions	39x28x6mm (1.5x1.1x0.2in)

Digital In/Out ports (all support PWM)
Digital Input ports
Analog Input 12 bits, 0 to 3.3V
Analog Output 8 bits, 0 - 3.3V
Capacitive Touch Sensor ports
I/O -pins from RTC ultra low power processor, usable in deep sleep mode
SD card interface
SPI bus for Flash-memory, do not use

The following pins show the default assignment. All these signals can be changed to any In/Out port.
This applies also to UART0 and UART1, which cannot be accessed in the default assignment.

I2C bus (Wire)
VSPI bus
Serial interfaces
HSPI bus