WEMOS Lolin32



Produktkode: 373aa
Tilgjengelighet: Opp til 1 mnd leveringstid
Weight: 15.00g
Custom Field 5 (Location): N 11

Pris: kr. 130,00

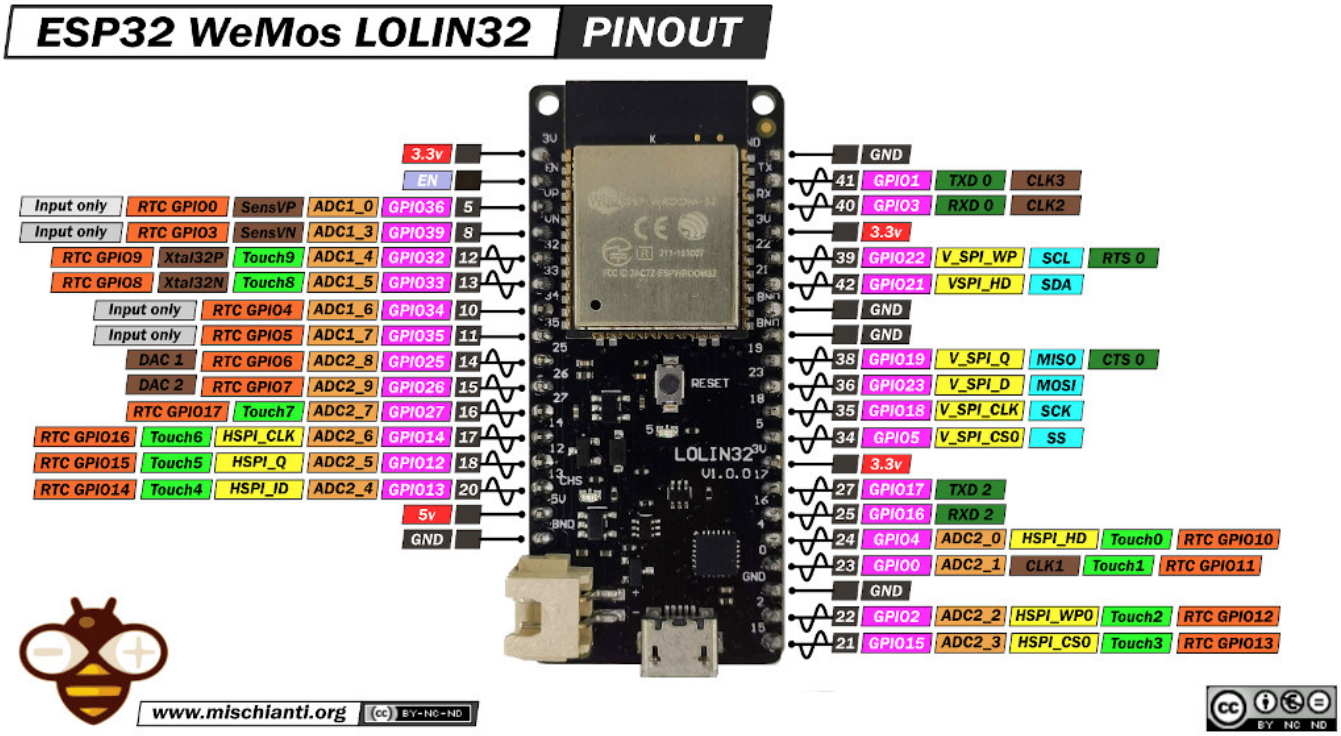
Kort beskrivelse
4 MB Flash WEMOS Lolin32 CP2104 WIFI & Bluetooth Card Based ESP-32 ESP-WROOM-32

Beskrivelse

- Processors:
  - CPU: Xtensa dual-core (or single-core) 32-bit LX6 microprocessor, operating at 160 or 240 MHz and performing at up to 600 DMIPS
  - Ultra low power (ULP) co-processor
- Memory: 520 KiB SRAM
- Wireless connectivity:
  - Wi-Fi: 802.11 b/g/n
  - Bluetooth: v4.2 BR/EDR and BLE (shares the radio with Wi-Fi)
- Peripheral interfaces:
  - 12-bit SAR ADC up to 18 channels
  - 2 × 8-bit DACs
  - 10 × touch sensors (capacitive sensing GPIOs)
  - 4 × SPI
  - 2 × I²S interfaces
  - 2 × I²C interfaces
  - 3 × UART
  - SD/SDIO/CE-ATA/MMC/eMMC host controller
  - SDIO/SPI slave controller

    - Ethernet MAC interface with dedicated DMA and IEEE 1588 Precision Time Protocol support
    - CAN bus 2.0
    - Infrared remote controller (TX/RX, up to 8 channels)
    - Motor PWM
    - LED PWM (up to 16 channels)
    - Hall effect sensor
    - Ultra low power analog pre-amplifier
- Security:
    - IEEE 802.11 standard security features all supported, including WFA, WPA/WPA2 and WAPI
    - Secure boot
    - Flash encryption
    - 1024-bit OTP, up to 768-bit for customers
    - Cryptographic hardware acceleration: AES, SHA-2, RSA, elliptic curve cryptography (ECC), random number generator (RNG)
- Power management:
    - Internal low-dropout regulator
    - Individual power domain for RTC
    - 5?A deep sleep current
    - Wake up from GPIO interrupt, timer, ADC measurements, capacitive touch sensor interrupt
- **Battery management**
    - Connector for 3.7v battery (like 18650).

Pinout



Erfaringsavvik

- Analoge inputs forstyrres når WiFi er aktiv. Gjelder portene 0, 2,4,12,13,14,15,25,26,27.
- Analoge inputs er ustabile.

Serieporter: https://circuits4you.com/2018/12/31/esp32-hardware-serial2-example/

UART	RX IO	TX IO	CTS	RTS
UART0	GPIO3	GPIO1	N/A	N/A
UART1	GPIO9	GPIO10	GPIO6	GPIO11
UART2	GPIO16	GPIO17	GPIO8	GPIO7

Prosjekter

[Kontroll batteri bobil]

Produktgalleri

