

Chip is ESP32D0WDQ6 (revision 1)
 Features: WiFi, BT, Dual Core, 240MHz, VRef calibration in efuse

- PIN 22 is connected to green LED

Power
 ESP32 VCC range: 2.2V-3.6V
 VBAT: direct to battery (and charger)
 USB: direct to USB (5V)
 VCC: Output of regulator 3.3V/600mA
 Up to 250mA during RF transmissions

Wireless
 Wifi: 802.11 b/g/n/e/l
 WPA/WPA2/WPA2-Enterprise/5PS
 Bluetooth: Bluetooth 4.2/BLE

ESP32
 Dual-core Xtensa 32-bit LX6
 Up to 240MHz
 520KB internal SRAM
 4MB external flash
Multiplexed I/Os allow up to
 18 ADC channels
 3 SPI interfaces
 3 UART interfaces
 2 I2C interfaces
 2 I2S interfaces
 16 LED PWM outputs
 2 DACs
 10 Capacitive Touch Inputs

ADC Preamp
 GPIO pins 36, 37, 38, and 39 are able to be used as a low noise analog pre-amplifier

Other*
 Hall Sensor
 Temp sensor (-40C to 125C)
 SD/SPI/MMC Host Controller
 CAN Bus
*On datasheet, but may not be supported yet

Name	ADC
Control	DAC
GPIO	SPI
Arduino	UART
Touch	Touch
Misc	Misc

*GPIO: Port Input Only
 *ADC: Pre-amplifier ADC
 GPIO 3.3V tolerant only

- [arduino example](#)

DOIT ESP32

DOIT ESP32 DEVKIT V1 PINOUT

Chip-enable signal, Active High. EN pin15

ADC PA RTC_GPIO0 ADC1_CH0 SENSOR_VP GPIO036 pin14

ADC PA RTC_GPIO3 ADC1_CH3 SENSOR_VN GPIO039 pin13

RTC_GPIO4 ADC1_CH6 VDET1 GPIO034 pin12

RTC_GPIO5 ADC1_CH7 VDET2 GPIO035 pin11

XTAL_32kHz Touch9 RTC_GPIO9 ADC1_CH4 GPIO032 pin10

XTAL_32kHz Touch8 RTC_GPIO8 ADC1_CH5 GPIO033 pin9

DAC_1 RTC_GPIO6 ADC2_CH8 EMAC_RXD0 GPIO025 pin8

DAC_2 RTC_GPIO7 ADC2_CH9 EMAC_RXD1 GPIO026 pin7

Touch7 RTC_GPIO17 ADC2_CH7 EMAC_RX_DV GPIO027 pin6

HS2_CLK SD_CLK HSP1_CLK M1MS Touch6 RTC_GPIO16 ADC2_CH6 EMAC_TXD2 GPIO104 pin5

HS2_DATA2 SD_DATA2 HSP1_MISO MTD1 Touch5 RTC_GPIO15 ADC2_CH5 EMAC_TXD3 GPIO102 pin4

HS2_DATA3 SD_DATA3 HSP1_MOSI MTKC Touch4 RTC_GPIO14 ADC2_CH4 EMAC_RX_ER GPIO103 pin3

GND pin2

VIN pin1

pin15 GPIO023 SPT_MOSI HS1_STROBE

pin14 GPIO022 EMAC_TXD1 UBRTS I2C_SCL

pin13 GPIO01 EMAC_RXD2 UBRXD CLK_OUT3

pin12 GPIO03 UBRXD CLK_OUT2

pin11 GPIO021 EMAC_TX_EN I2C_SDA

pin10 GPIO019 EMAC_TXD0 UBRCTS SPI_MISO

pin9 GPIO018 SPI_CLK HS1_DATA7

pin8 GPIO05 EMAC_RX_CLK SPI_CS0 HS1_DATA6

pin7 GPIO017 EMAC_CLKOUT180 U2_TXD HS1_DATA5

pin6 GPIO016 EMAC_CLKOUT U2_RXD HS1_DATA4

pin5 GPIO04 EMAC_TX_ER ADC2_CH0 RTCIO10 Touch0 HSP1HD SD_DATA1 HS2_DATA1

pin4 GPIO02 ADC2_CH2 RTCIO12 Touch2 HSP1WP

pin3 GPIO015 EMAC_RXD3 ADC2_CH3 RTCIO13 Touch3 MTD0 HSP1_CS0 SD_CND HS2_CND

pin2 GND

pin1 VDD_3V3

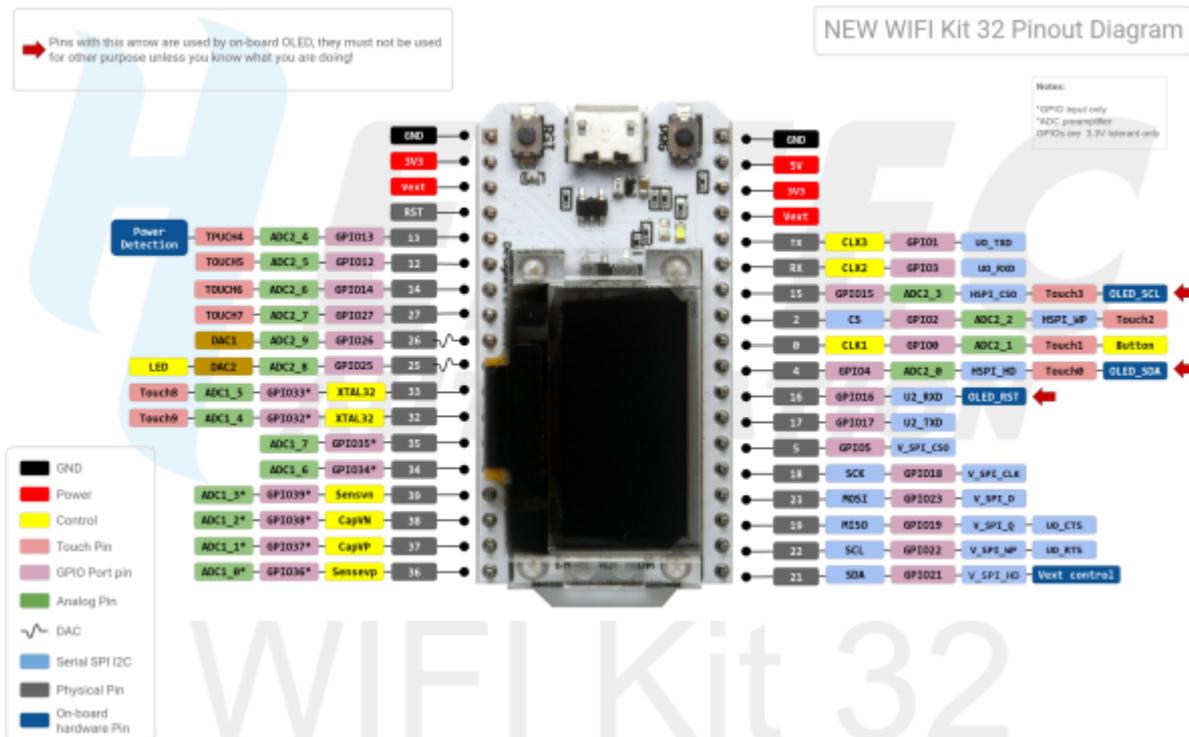
Legend:
 Power
 Serial Pin
 Analog Pin
 Control
 Physical Pin
 Port Pin
 Touch Pin
 DAC Pin

playelek.com
 22-AUG-2016
 v1.1

physical pinout

MakerHawk ESP32 OLED Display

- [resources](#)
- [github lib](#)
- [pins arduino](#)



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