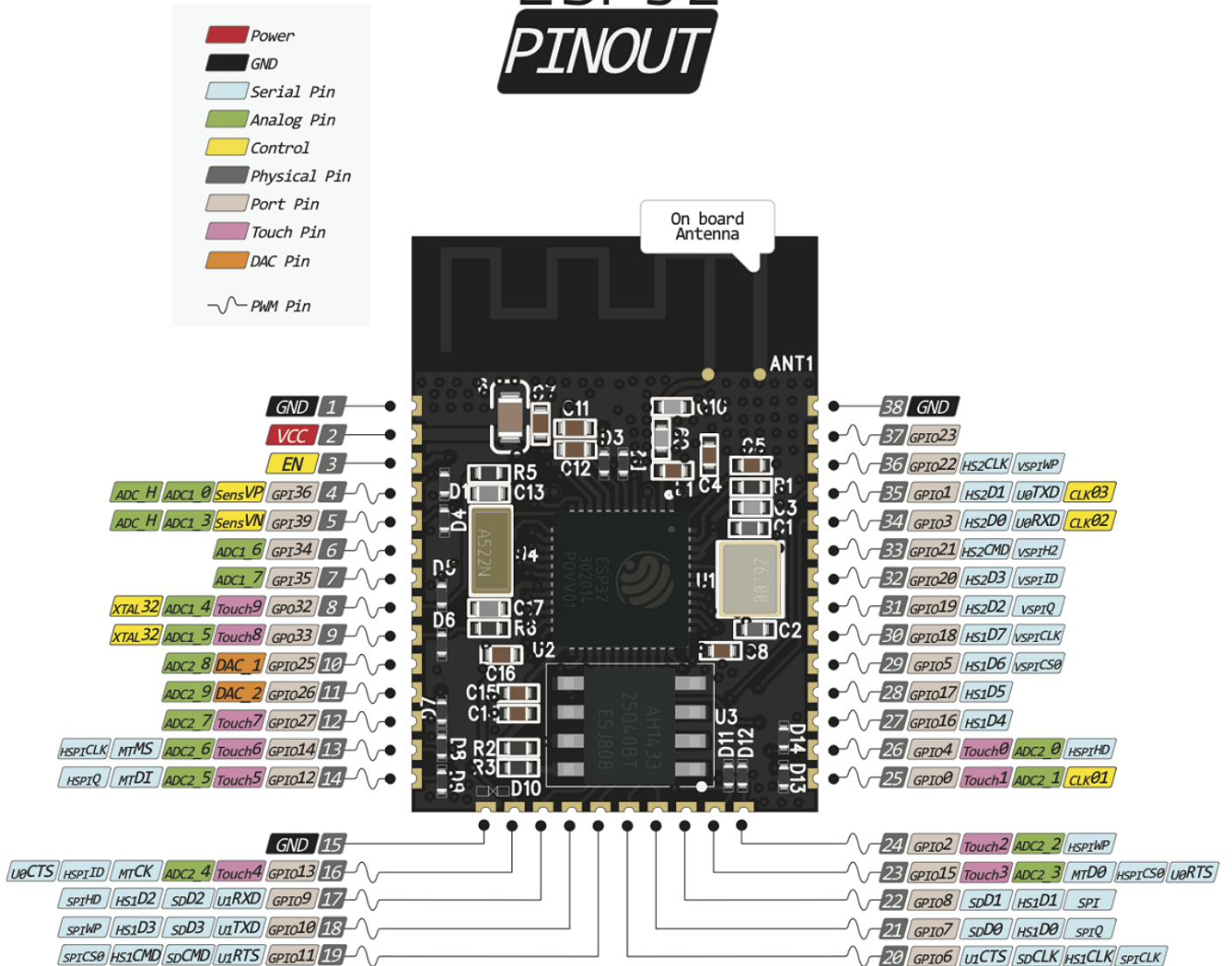
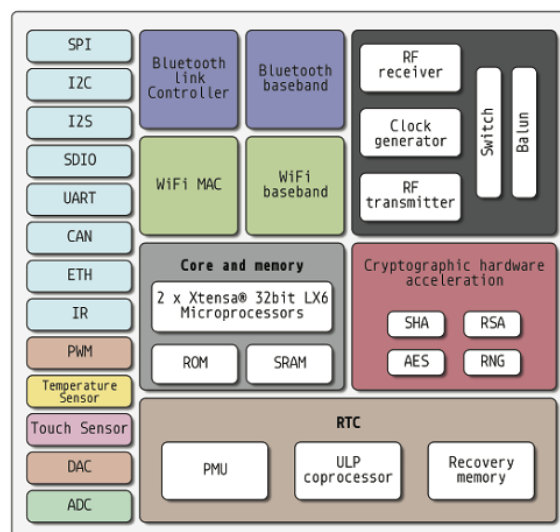
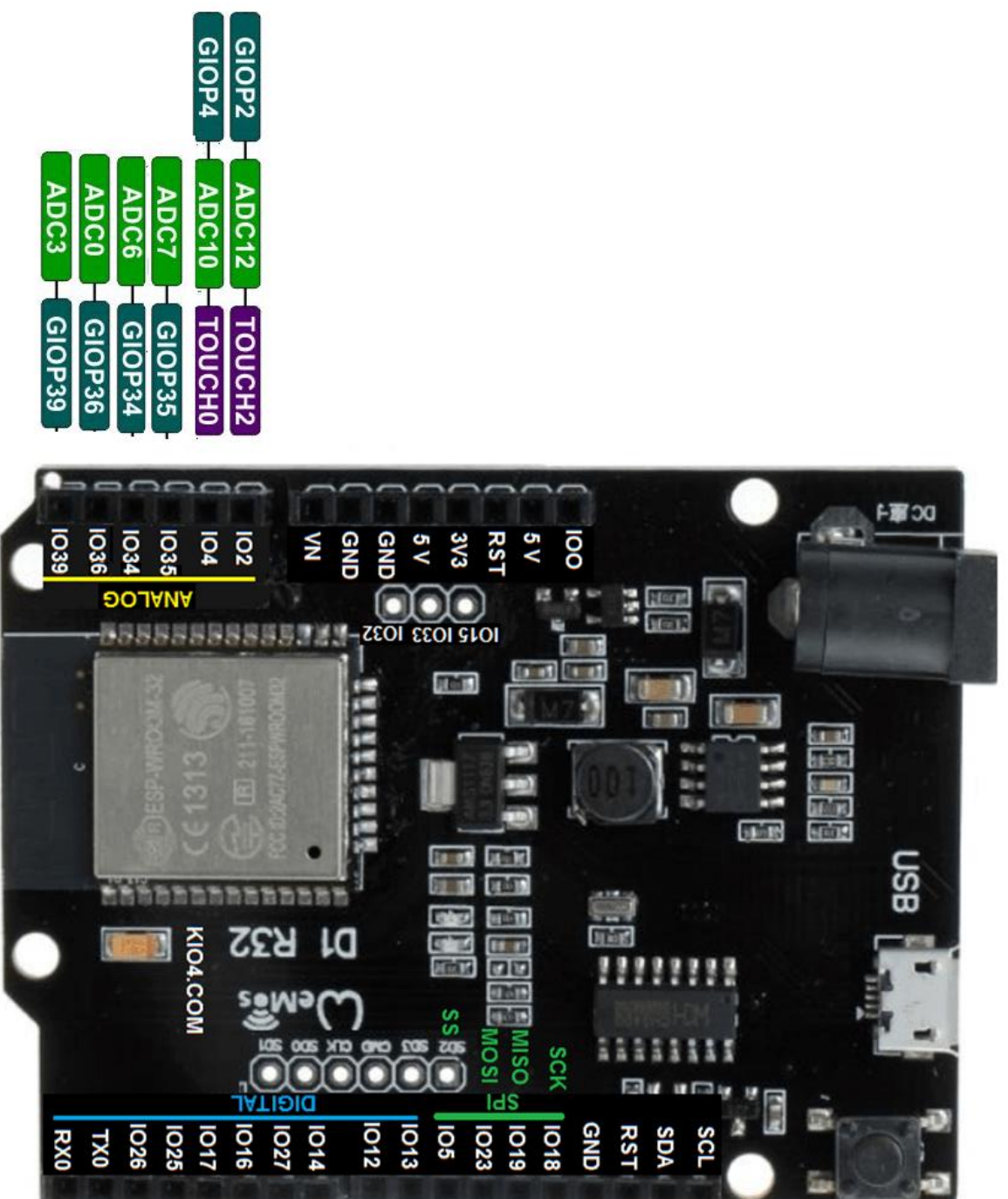


ESP32 PINOUT



<http://esp32.com/>





GPIO2	ADC12	TOUCH2
GPIO4	ADC10	TOUCH0
	ADC7	GPIO35
	ADC6	GPIO34
	ADC0	GPIO36
	ADC3	GPIO39

GPIO18	VSP1 SCK	
GPIO19	VSP1 MISO	
GPIO23	VSP1 MOSI	
GPIO5	VSP1 SS	
TOUCH4	ADC14	GPIO13
TOUCH5	ADC15	GPIO12
TOUCH6	ADC16	GPIO14
TOUCH7	ADC17	GPIO27
GPIO16	RX2	
GPIO17	TX2	
DAC1	ADC18	GPIO25
DAC2	ADC19	GPIO26

PIN HEADER 1 – power supply pins, grounding and reset

Position	Pin Name	Function
1	VIN	DC Power In from Jack Connector
2	GND	Ground
3	GND	Ground
4	5V	5V Power Out from DC/DC Regulator / 5V DC In from USB Connector
5	3V3	3V3 DC Power Out, Main Power Supply of ESP32-WROOM-32 Module
6	RST/EN	Chip-reset, active LOW / Chip-enable, active HIGH
7	5V	5V Power Out from DC/DC Regulator / 5V DC In from USB Connector
8	IO0	GPIO0, TOUCH1, ADC2_CH1, CLK_OUT1

PIN HEADER 2 – analog input pins (ADCs, Touch)

Position	Pin Name	Function
1	IO39	GPIO39, SENSOR_VN, ADC1_CH3, ADC_H, RTC_GPIO3
2	IO36	GPIO36, SENSOR_VP, ADC_H, ADC1_CH0, RTC_GPIO0
3	IO34	GPIO34, ADC1_CH6, RTC_GPIO4
4	IO35	GPIO35, ADC1_CH7, RTC_GPIO5
5	IO04	GPIO4, ADC2_CH0, TOUCH0, RTC_GPIO10, HSPiHD, HS2_DATA1, SD_DATA1, EMAC_TX_ER
6	IO02	GPIO2, ADC2_CH2, TOUCH2, RTC_GPIO12, HSPiWP, HS2_DATA0, SD_DATA0

PIN HEADER 3 – digital I/O pins, analog output pins (DACs) and UART interface

Position	Pin Name	Function
1	RX0	GPIO3, U0RXD, CLK_OUT2
2	TX0	GPIO1, U0TXD, CLK_OUT3, EMAC_RXD2
3	IO26	GPIO26, DAC_2, ADC2_CH9, RTC_GPIO7, EMAC_RXD1
4	IO25	GPIO25, DAC_1, ADC2_CH8, RTC_GPIO6, EMAC_RXD0
5	IO17	GPIO17, HS1_DATA5, U2TXD, EMAC_CLK_OUT_180
6	IO16	GPIO16, HS1_DATA4, U2RXD, EMAC_CLK_OUT
7	IO27	GPIO27, ADC2_CH7, TOUCH7, RTC_GPIO17, EMAC_RX_DV
8	IO14	GPIO14, ADC2_CH6, TOUCH6, RTC_GPIO16, MTMS, HSPICLK, HS2_CLK, SD_CLK, EMAC_TXD2

PIN HEADER 4 – digital I/O pins, SPI interface and I2C interface

Position	Pin Name	Function
1	IO12	GPIO12, ADC2_CH5, TOUCH5, RTC_GPIO15, MTDI, HSPiQ, HS2_DATA2, SD_DATA2, EMAC_TXD3
2	IO13	GPIO13, ADC2_CH4, TOUCH4, RTC_GPIO14, MTCK, HSPiD, HS2_DATA3, SD_DATA3, EMAC_RX_ER
3	IO05	GPIO5, VSPICS0, HS1_DATA6, EMAC_RX_CLK
4	IO23	GPIO23, VSPID, HS1_STROBE
5	IO19	GPIO19, VSPIQ, U0CTS, EMAC_TXD0
6	IO18	GPIO18, VSPICLK, HS1_DATA7
7	GND	Ground
8	RST/EN	Chip-reset, active LOW / Chip-enable, active HIGH
9	SDA	GPIO21, VSPIHD, EMAC_TX_EN
10	SCL	GPIO22, VSPIWP, U0RTS, EMAC_TXD1