ESP32-DevKitC

ESPRESSIF

ESP32-WROOM

Left side pins					
				3V3	**3V3**
			PU	EN	EN
OD/ID	S_VP	ADC1_0	RTC	GPIO36	VP
OD/ID	S_VN	ADC1_3	RTC	GPIO39	VN
OD/ID	VDET_1	ADC1_6	RTC	GPIO34	34
OD/ID	VDET_2	ADC1_7	RTC	GPIO35	35
OD/ID	32K_XP	TOUCH9	ADC1_4	RTC GPIO32	32
OD/ID	32K_XN	TOUCH8	ADC1_5	RTC GPIO33	33
OD/ID	DAC_1	ADC1_8	RTC	GPIO25	25
OD/ID	DAC_2	ADC2_9	RTC	GPIO26	26
OD/ID	TOUCH7	ADC2_7	RTC	GPIO27	27
OD/IE/WPU	HSPI_SCK	MTMS	TOUCH6	ADC2_6 RTC GPIO14	14
OD/IE/WPD VDD_FLASH	HSPI_MISO	MTDI	TOUCH5	ADC2_5 RTC GPIO12	12
				GND	**GND**
OD/IE/WPD	HSPI_MOSI	MTCK	ADC2_4 TOUCH4 RTC GPIO13		13
!	OD/IE/WPU	D2	GPIO9		D2
!	OD/IE/WPU	D3	GPIO10		D3
!	OD/IE/WPU	CMD	GPIO11		CMD
				5V0	5V

EN   Boot

Right side pins				
GND				**GND**
23	GPIO23	VSPI_MOSI	SPI_MOSI	OD/IE
22	GPIO22	WIRE_SCL	OD/IE	
TX	GPIO1	U0TXD	SERIAL_TX	OD/IE/WPU
RX	GPIO3	U0RXD	SERIAL_RX	OD/IE/WPU
21	GPIO21	WIRE_SDA	OD/IE	
19 GND	**GND**			
19	GPIO19	VSPI_MISO	OD/IE	
18	GPIO18	VSPI_SCK	OD/IE	
5	GPIO5	VSPI_SS	SDIO	OD/IE/WPU
17	GPIO17	OD/IE		
16	GPIO16	OD/IE		
4	GPIO4	RTC	ADC2_0	TOUCH0 OD/IE/WPD
0	GPIO0	RTC	ADC2_1	TOUCH1 BOOT OD/IE/WPU
2	GPIO2	RTC	ADC2_2	TOUCH2 OD/IE/WPD
15	GPIO15	RTC	ADC2_3	TOUCH3 MTDO HSPI_SS LOG OD/IE/WPU
D1	GPIO8	D1	OD/IE/WPU	!
D0	GPIO7	D0	OD/IE/WPU	!
CLK	GPIO6	SCK	OD/IE/WPU	!

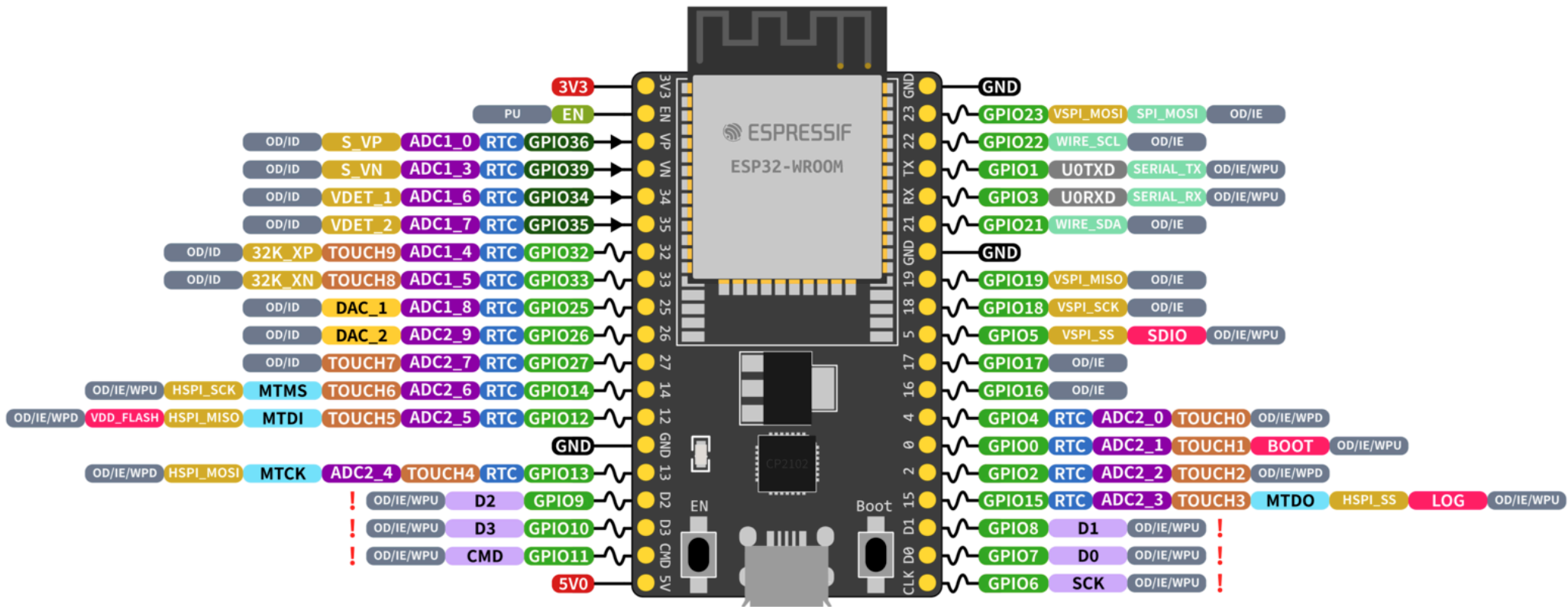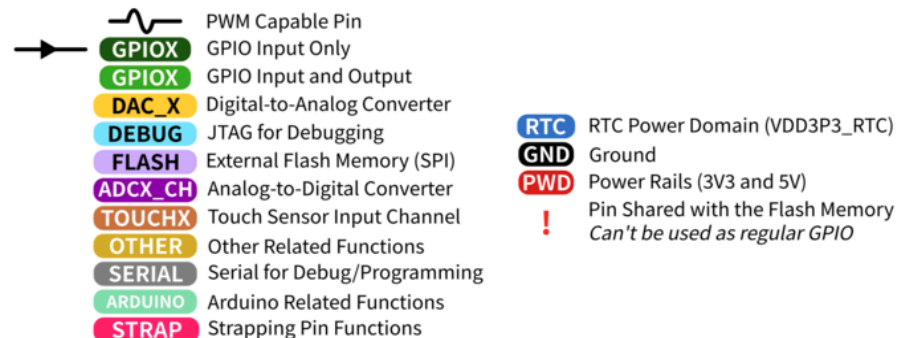## ESP32 Specs
32-bit Xtensa® dual-core @240MHz
Wi-Fi IEEE 802.11 b/g/n 2.4GHz
BLuetooth 4.2 BR/EDR and BLE
520 KB SRAM (16 KB for cache)
448 KB ROM
34 GPIOs, 4x SPI, 3x UART, 2x I2C,
2x I2S, RMT, LED PWM, 1 host SD/eMMC/SDIO,
1 slave SDIO/SPI, TWAI®, 12-bit ADC, Ethernet

Legend	
⌇	PWM Capable Pin
→ GPIOX	GPIO Input Only
GPIOX	GPIO Input and Output
DAC_X	Digital-to-Analog Converter
DEBUG	JTAG for Debugging
FLASH	External Flash Memory (SPI)
ADCX_CH	Analog-to-Digital Converter
TOUCHX	Touch Sensor Input Channel
OTHER	Other Related Functions
SERIAL	Serial for Debug/Programming
ARDUINO	Arduino Related Functions
STRAP	Strapping Pin Functions

RTC	RTC Power Domain (VDD3P3_RTC)
GND	Ground
PWD	Power Rails (3V3 and 5V)
!	Pin Shared with the Flash Memory *Can't be used as regular GPIO*

GPIO STATE
WPU: *Weak Pull-up (Internal)*
WPD: *Weak Pull-down (Internal)*
PU: *Pull-up (External)*
IE: *Input Enable (After Reset)*
ID: *Input Disabled (After Reset)*
OE: *Output Enable (After Reset)*
OD: *Output Disabled (After Reset)*