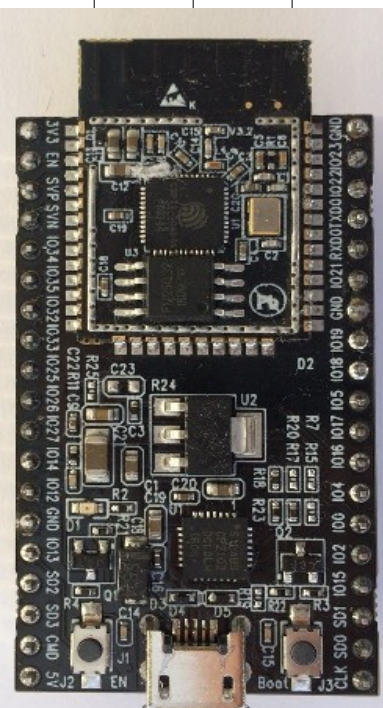


ESP32-Devkit-C		
3V3		Gnd
EN Used by program logic. SW2 grounds via resistor.		GPIO23, VSPID, HS1_STROBE
		GPIO22, VSPIWP, U0RTS, EMAC_TXD1
		GPIO1, U0TXD, CLK_OUT3, EMAC_RXD2
		GPIO3, U0RXD, CLK_OUT2
		GPIO21, VSPIHD, EMAC_TX_EN
		Gnd
		GPIO19, VSPIQ, U0CTS, EMAC_TXD0
		GPIO18, VSPICLK, HS1_DATA7
		GPIO5, VSPICS0, HS1_DATA6, EMAC_RX_CLK
		GPIO17, HS1_DATA5, U2TXD, EMAC_CLK_OUT_180
		GPIO16, HS1_DATA4, U2RXD, EMAC_CLK_OUT
		GPIO4, ADC2_CH0, TOUCH0, RTC_GPIO10, HSPID, HS2_DATA1, SD_DATA1, EMAC_TX_ER
		GPIO0, ADC2_CH1, TOUCH1, RTC_GPIO11, CLK_OUT1, EMAC_TX_CLK
		GPIO2, ADC2_CH2, TOUCH2, RTC_GPIO12, HSPIWP, HS2_DATA0, SD_DATA0 External pulldown
		GPIO15, ADC2_CH3, TOUCH3, RTC_GPIO13, MTDO, HSPICS0, HS2_CMD, SD_CMD, EMAC_RXD3
		GPIO8, SD_DATA1, SPID, HS1_DATA1, U2CTS
		GPIO7, SD_DATA0, SPIQ, HS1_DATA0, U2RTS
		GPIO6, SD_CLK, SPICLK, HS1_CLK, U1CTS

ADC: FSD = 4095 = 1.109V (Because 693mV gave 2559. Is the limit 1.0V?)

DAC: FSD = 255 = 3.19V (Vs = 3.3V). 127 gave 1.63V implying 3.3V FS.

Value	Expected	Actual	Error %
10	0.13	0.21	2.4
20	0.26	0.33	2.1
127	1.64	1.63	-0.3
200	2.58	2.53	-1.5
240	3.11	3.01	-3
255	3.3	3.19	-3.3

Used for internal flash, not recommended for other use

Input only. No internal pullup or pulldown.

Used by USB/REPL

GPIO0 has a 5KΩ external pullup. SW0 grounds via 470Ω

Used on ESP32-WROVER-KIT etc to access external SPI RAM

Remapping peripherals:

uart = machine.UART(1, baudrate=115200, tx=25, rx=26)

ESP32-D2WD is the chip with embedded 2MB flash and the internal flash is connected to different pins (GPIO16, GPIO17, SD_CMD, SD_CLK, SD_DATA_0 and SD_DATA_1)