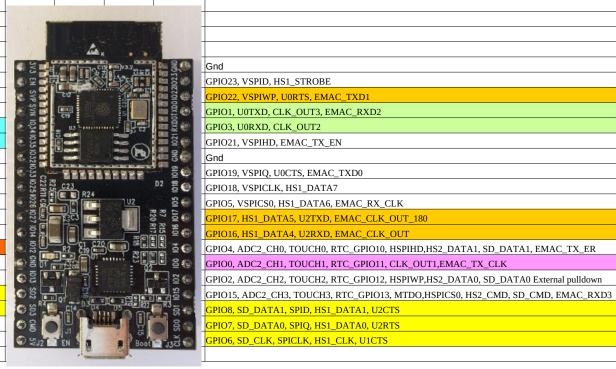
ECD22 Doubit C	
ESP32-Devkit-C	
3V3	
EN Used by program logic. SW2 grounds	via resistor.
GPIO34, ADC1_CH6, RTC_GPIO4	
GPIO35, ADC1_CH7, RTC_GPIO5	
GPIO32, 32K_XP (32.768 kHz osc i/p),ADC	1_CH4, TOUCH9, RTC_GPIO9
GPIO33, 32K_XN (32.768 kHz osc o/p),ADC	C1_CH5, TOUCH8, RTC_GPIO8
GPIO25, DAC_1, ADC2_CH8, RTC_GPIO6	, EMAC_RXD0
GPIO26, DAC_2, ADC2_CH9, RTC_GPIO7	, EMAC_RXD1
GPIO27, ADC2_CH7, TOUCH7, RTC_GPIO	017, EMAC_RX_DV
GPIO14, ADC2_CH6, TOUCH6, RTC_GPIO16, M	TMS, HSPI-CLK, HS2_CLK, SD_CLK, EMAC_TXD2
GPIO12, ADC2_CH5, TOUCH5, RTC_GPIO15, M	TDI, HSPIQ,HS2_DATA2, SD_DATA2, EMAC_TXD3
Gnd	
GPIO13, ADC2_CH4, TOUCH4, RTC_GPIO14, MTC	K, HSPID,HS2_DATA3, SD_DATA3, EMAC_RX_ER
GPIO9, SD_DATA2, SPIHD, HS1_DATA2,	U1RXD
GPIO10, SD_DATA3, SPIWP, HS1_DATA3	, U1TXD
Marked Cmd. No idea what this is for.	
5V	



GPIO23, VSPID, HS1 STROBE GPIO22, VSPIWP, U0RTS, EMAC_TXD1 GPIO1, U0TXD, CLK_OUT3, EMAC_RXD2 GPIO3, U0RXD, CLK OUT2 GPIO21, VSPIHD, EMAC TX EN GPIO19, VSPIQ, U0CTS, EMAC_TXD0 GPIO18, VSPICLK, HS1_DATA7 GPIO5, VSPICSO, 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, HSPIHD,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

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. Expected Actual Error % Value 10 0.13 0.21 2.4 20 SPI: Hardware SPI ID1 is HSPI, ID2 is VSPI. Any pins may be used - native pins are faster. 0.26 0.33 2.1 127 -0.3 1.64 1.63 ID1 MISO 12 MOSI 13 CLK 14 2.58 2.53 -1.5 200 ID2 MISO 19 MOSI 23 CLK 18 machine.SPI(1, baudrate=100000, sck=2, mosi=15, miso=4) to alter pins. 240 3.11 3.01 -3 255 3.3 3.19 Must not be pulled low or high on boot. Affects supply voltage to flash.

Used for internal flash, not recommended for other use

Input only. No internal pullup or pulldown.

Used by USB/REPL

GPIO0 has a $5K\Omega$ external pullup. SW0 grounds via 470Ω

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

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)