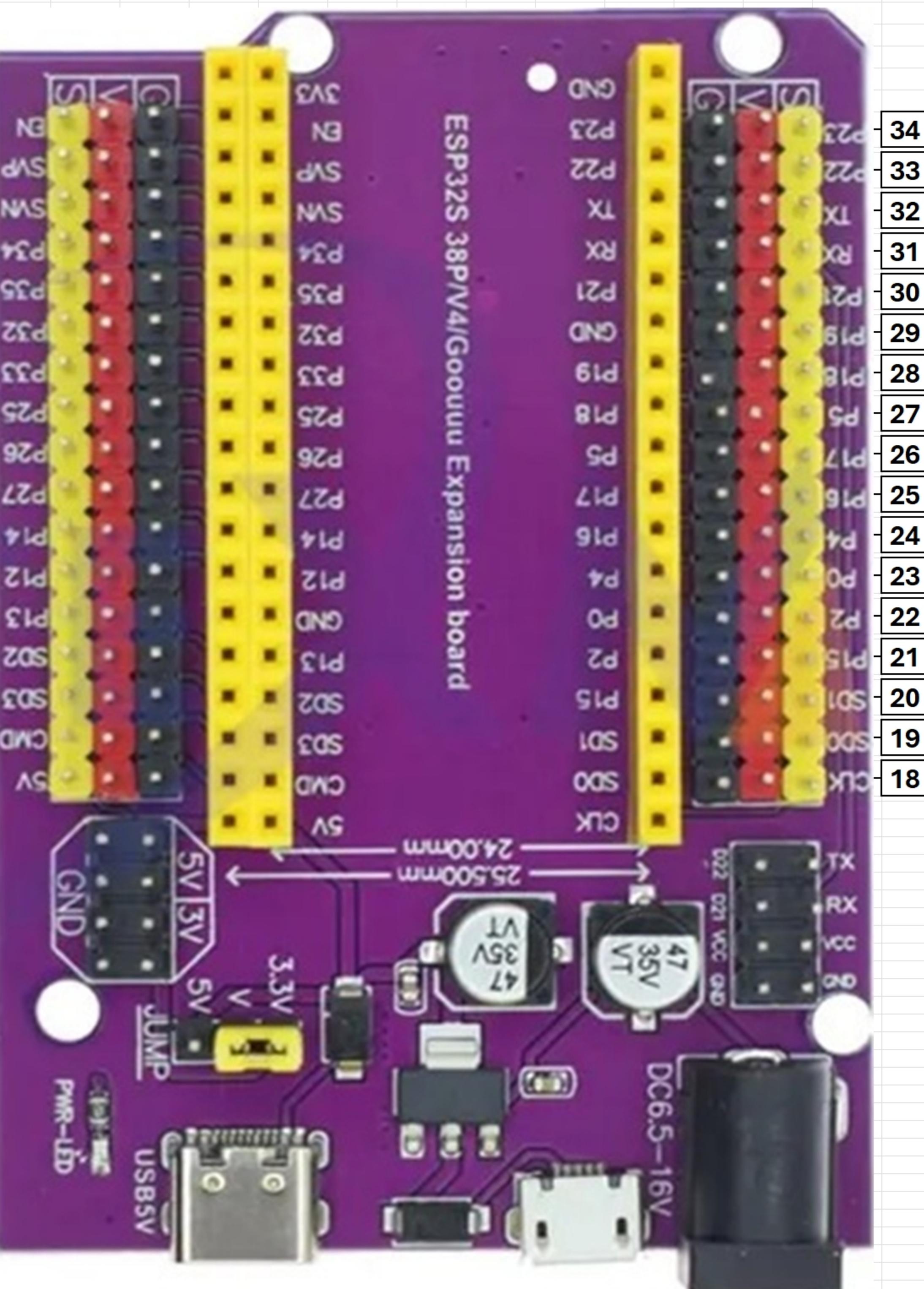
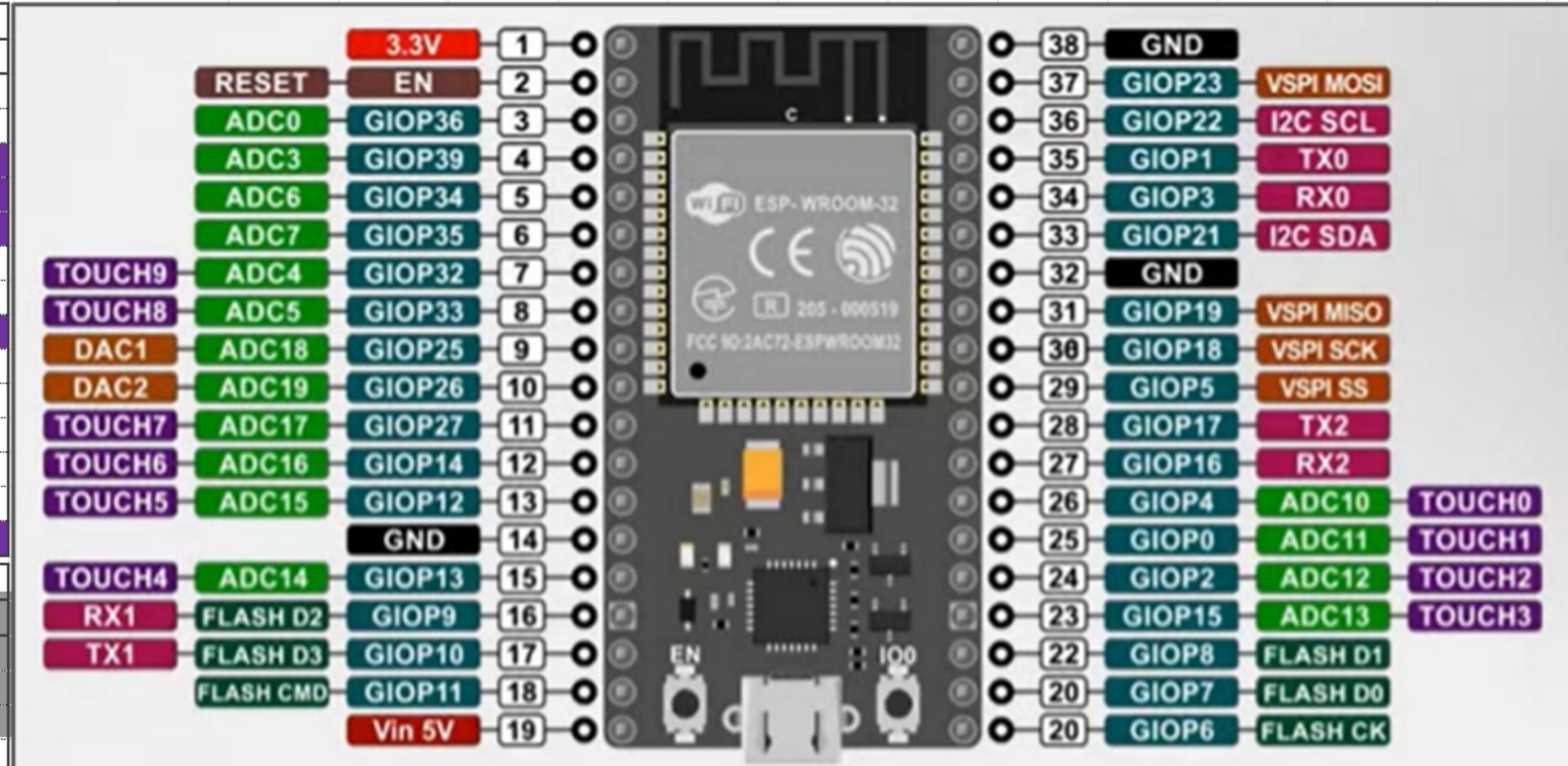


The image shows the pinout diagram for the WiFi ESP - WROOM - 32 (38 Pines) and TFT ILI9488 expansion boards. The diagram is divided into three main sections: SD CARD, TOUCH, and PANEL TFT for the left board; WiFi ESP - WROOM - 32 (38 Pines); and PANEL TFT, TOUCH, and SD CARD for the right board. The central part is labeled "ESP32S 38P/V4/Goouuu Expansion Board". The pins are color-coded and numbered from 1 to 38. The left section (SD CARD, TOUCH, PANEL TFT) includes pins 1-17. The right section (PANEL TFT, TOUCH, SD CARD) includes pins 18-38. The WiFi ESP section includes pins 18-38.

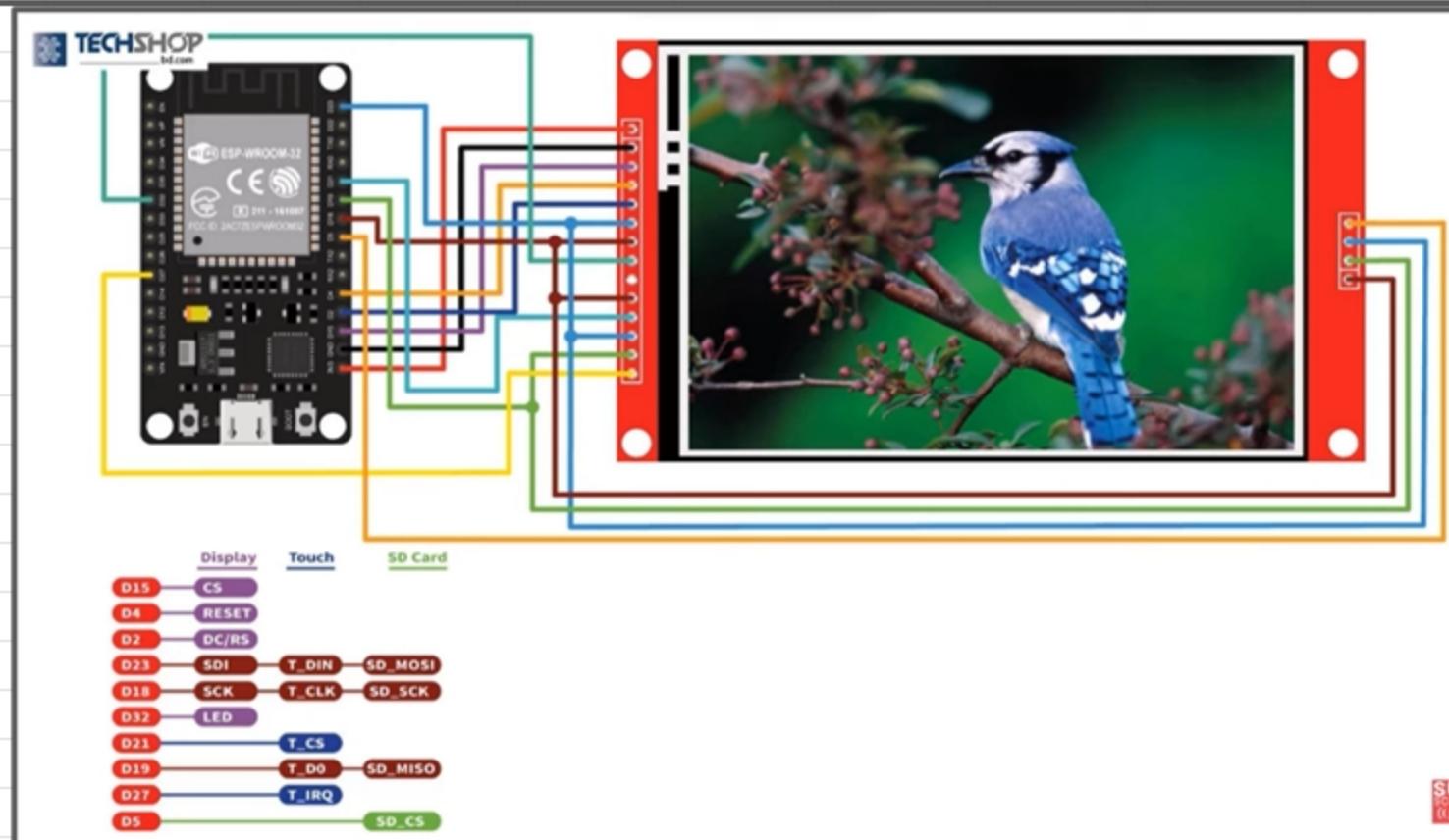
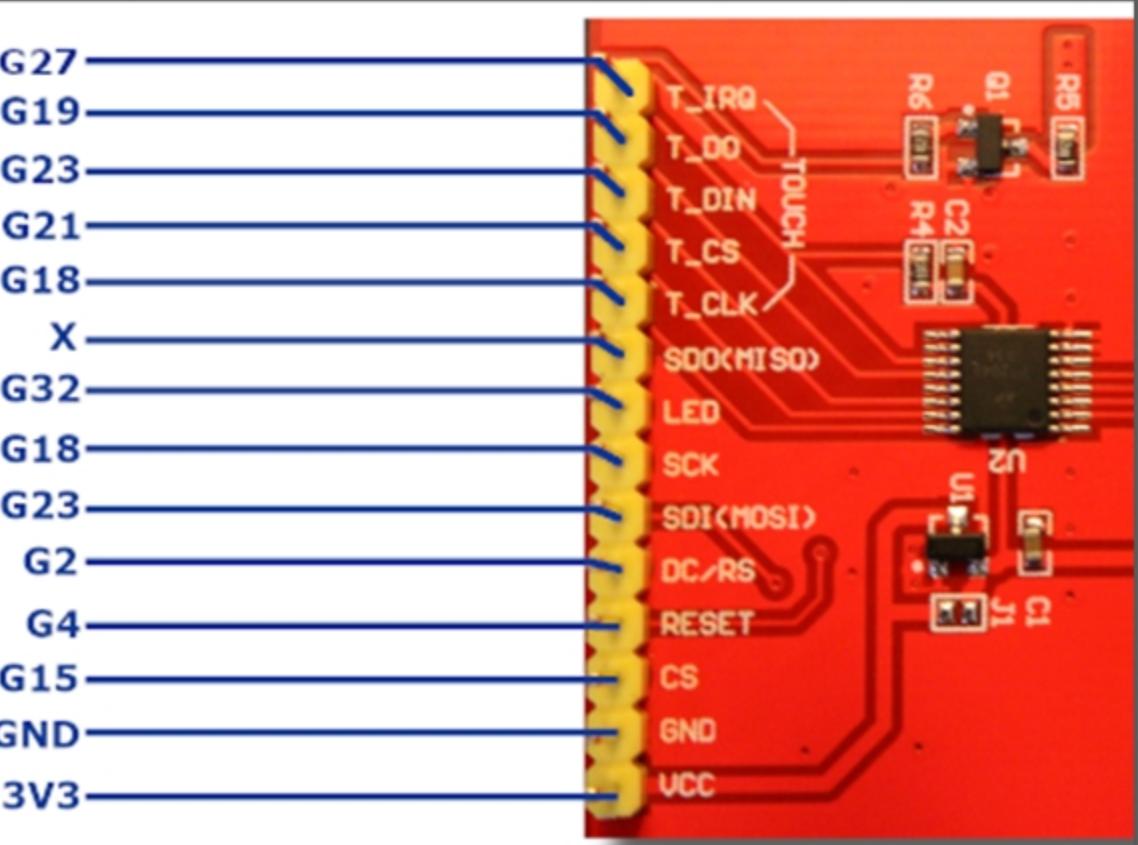


	ILI 9488 TFT	ESP32-WROOM-32			
J2	TFT Pin	Pin	ESP32 - 38 Pin		
	1 UDD	1		3V3	
	2 GND	38	14, 32	GND	
	3 CS	23		GPIO15	ADC13
	4 RST	26		GPIO4	ADC10
	5 D/C	24		GPIO2	ADC12
	6 SDI	<u>37</u>		<u>GPIO23</u>	<u>VSPI MOSI</u>
	7 SCK	<u>30</u>		<u>GPIO18</u>	<u>VSPI SCK</u>
	8 BL	7		GPIO32	ADC4
	9 SDO	N.C.		N.C.	
	10 TCK	<u>30</u>		<u>GPIO18</u>	<u>VSPI SCK</u>
	11 TCS	33		GPIO21	I2C SDA
	12 TDI	<u>37</u>		<u>GPIO23</u>	<u>VSPI MOSI</u>
	13 TDO	31		GPIO19	<u>VSPI MISO</u>
	14 PEN	11		GPIO27	ADC17
					TOUCH7

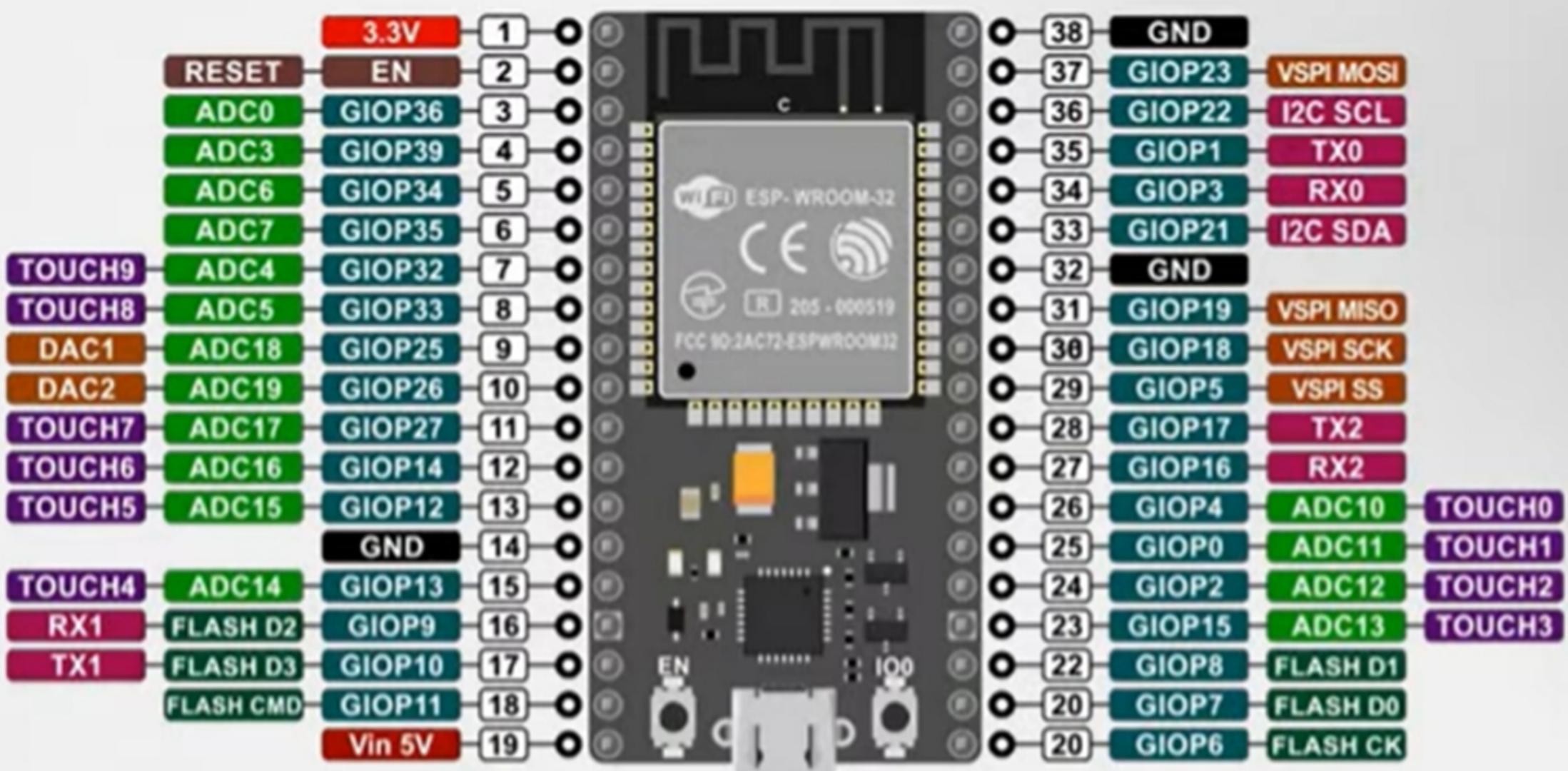


	ILI 9488 TFT		ESP32-WROOM-32			
	J4	TFT Pin	Pin		ESP32 - 38 Pin	
SPI CS	1	SCS	29		GPIO5	V <sub>SPIS</sub> S
SPI SDI	2	SDI	37		GPIO23	V <sub>SPIM</sub> O <sub>S</sub>
SPI SDO	3	SDO	31		GPIO19	V <sub>SPIM</sub> I <sub>S</sub> O
SPI CLK	4	CLK	30		GPIO18	V <sub>SPIS</sub> C <sub>K</sub>

<b>TFT Pin</b>	<b>ESP32 Pin</b>
VCC	3V3
GND	GND
CS	GPIO15
RESET	GPIO4
DC/RS	GPIO2
SDI (MOSI)	GPIO23
SCK	GPIO18
LED	GPIO32
SDO (MISO)	N.C.
T_CLK	GPIO18
T_CS	GPIO21
T_DIN	GPIO23
T_DO	GPIO19
T_IRQ	GPIO27



	ILI9488 TFT	ESP32-WROOM-32	
J2	TFT Pin	Pin	ESP32 - 38 Pin
1	3V3	1	3V3
2	GND	38	14, 32
3	CS	23	GPIO15
4	RST	26	GPIO4
5	D/C	24	GPIO2
6	SDI	37	GPIO23
7	SCK	30	GPIO18
8	BL	7	GPIO32
9	SDO	N.C.	N.C.
10	TCK	30	GPIO18
11	TCS	33	GPIO21
12	TDI	37	GPIO23
13	TDO	31	GPIO19
14	PEN	11	GPIO27
	ILI9488 TFT	ESP32-WROOM-32	
J4	TFT Pin	Pin	ESP32 - 38 Pin
1	SCS	29	GPIO5
2	SDI	37	GPIO23
3	SDO	31	GPIO19
4	CLK	30	GPIO18



TFT Pin	ESP32 Pin
VCC	3V3
GND	GND
CS	GPIO15
RESET	GPIO4
DC/RS	GPIO2
SDI (MOSI)	GPIO23
SCK	GPIO18
LED	GPIO32
SDO (MISO)	N.C.
T_CLK	GPIO18
T_CS	GPIO21
T_DIN	GPIO23
T_DO	GPIO19
T_IRQ	GPIO27

