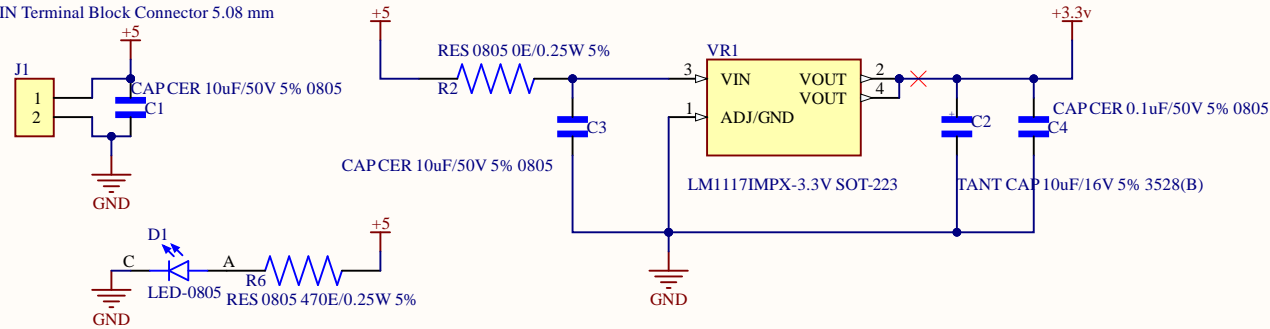
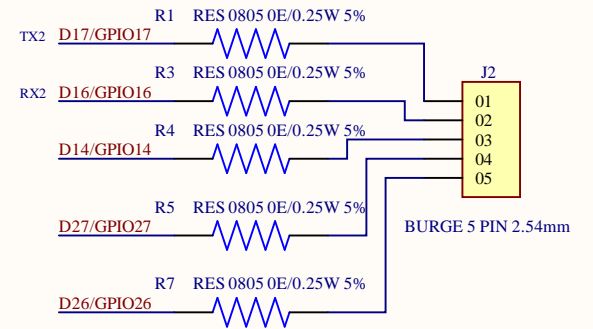


## 5V POWER CONN

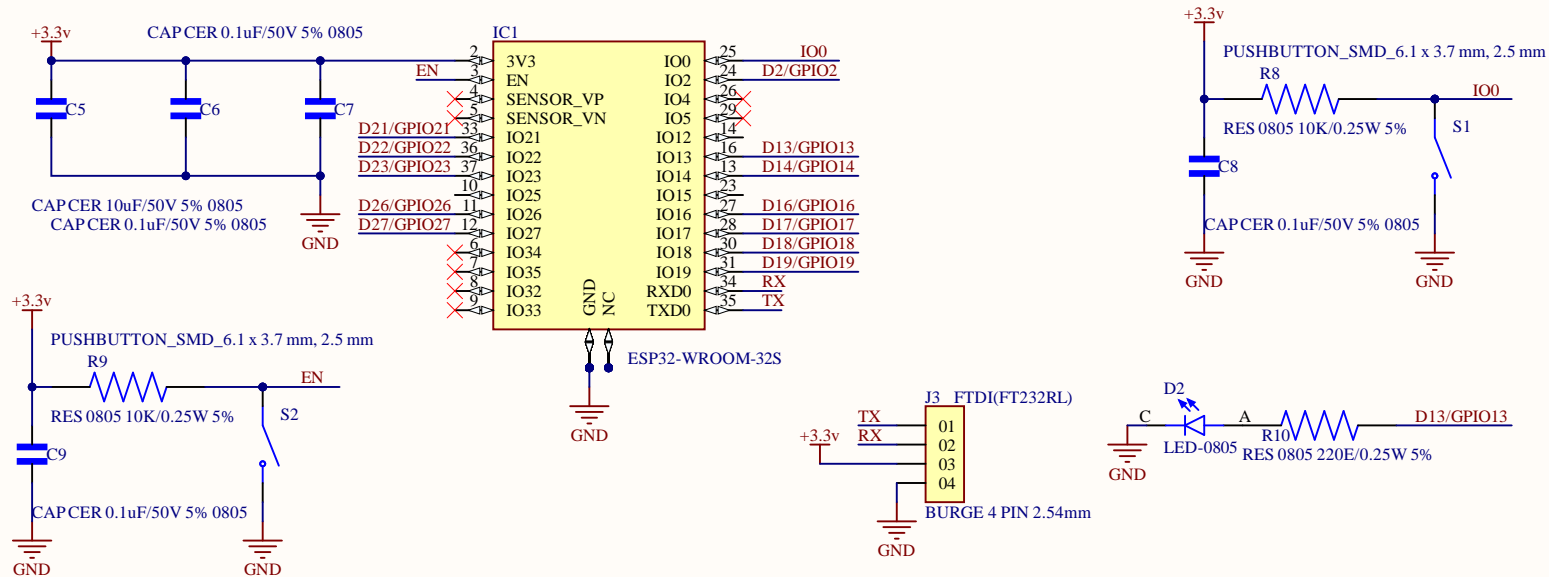
2 PIN Terminal Block Connector 5.08 mm



## GPIO PINS

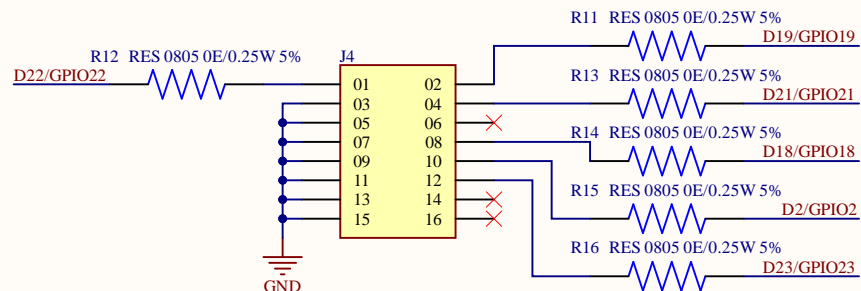


## ESP32-WROOM-32S



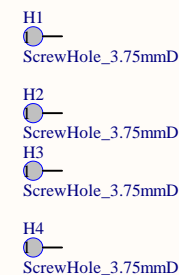
Title		
Size	Number	Revision
A4		
Date:	5-31-2025	Sheet of
File:	C:\Users\...\P10_ESP32.SchDoc	Drawn By:

## P10 DISPLAY CONN

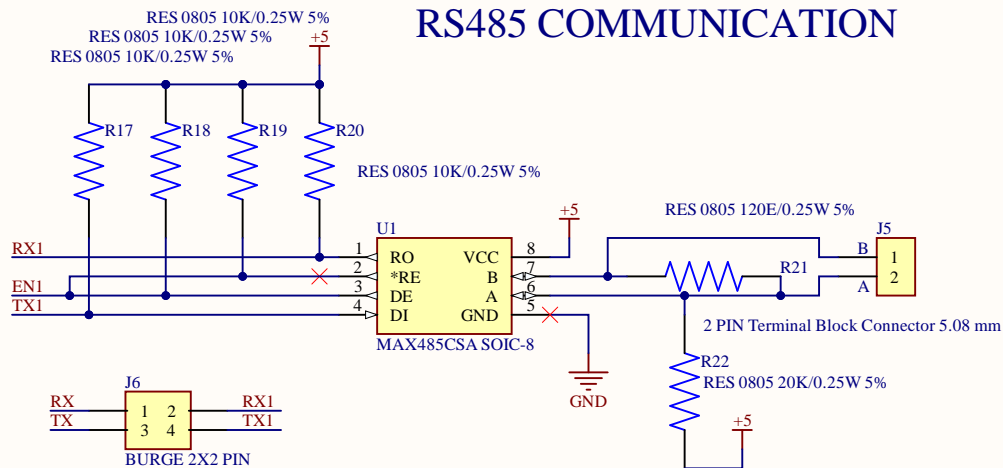


BOX HEADER MALE 8X2 2.54mm

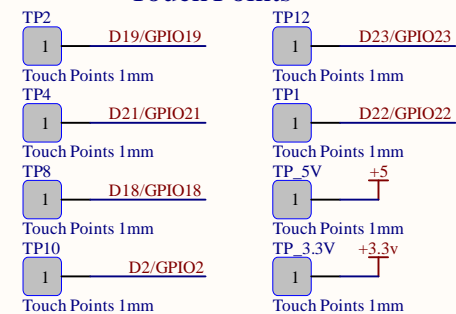
## Screw Hole



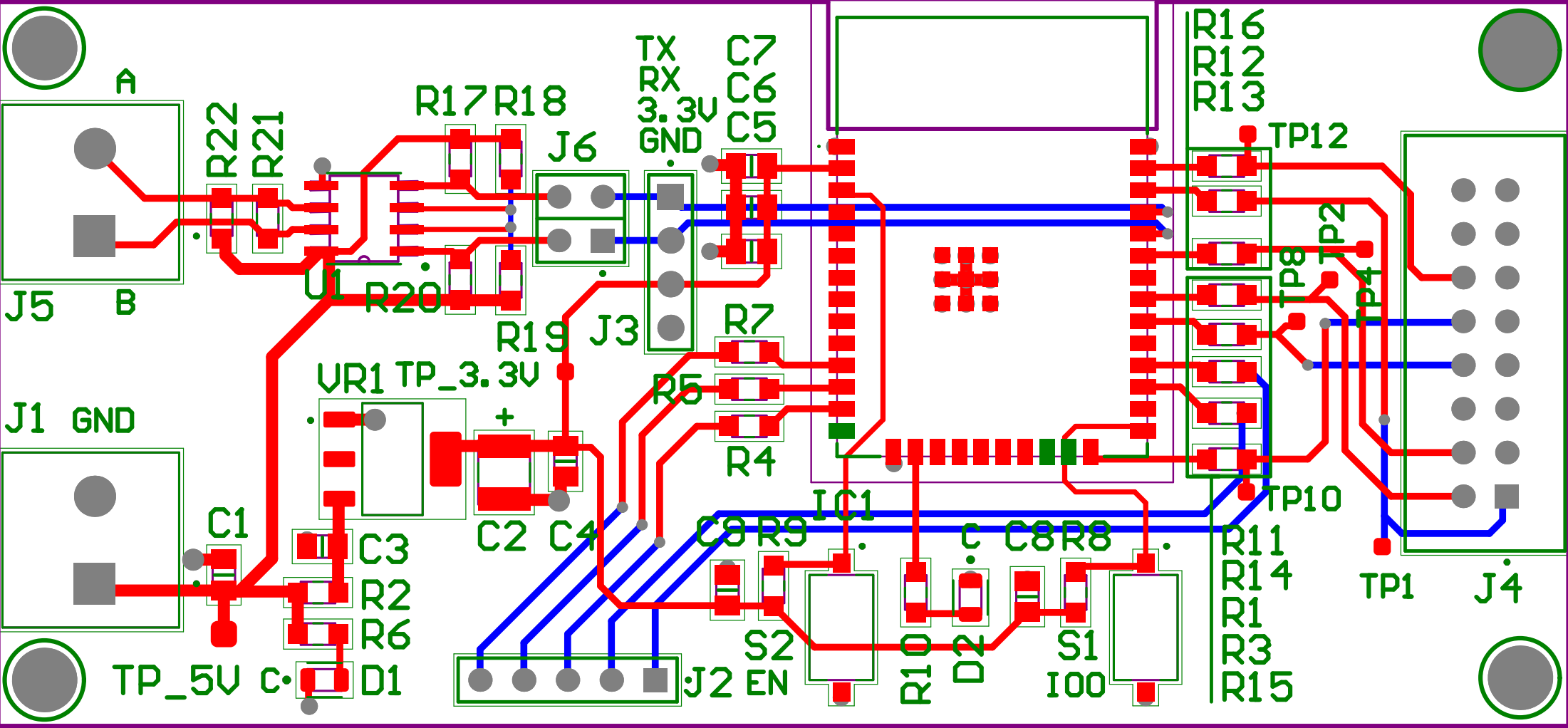
## RS485 COMMUNICATION



## Touch Points



Title		
Size	Number	Revision
A4		
Date:	5-31-2025	Sheet of
File:	C:\Users\...\P10_ESP32_1.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
CAP CER 0.1uF/50V 5% 0805	CAP CER 0.1uF/50V Ceramic Capacitor X7R 0805 (2012 Metric)	C1, C3, C5	CAP CER 0.1uF/50V 5%	CAP CER 0.1uF/50V 5%	3
TANT CAP 10uF/16V 5% 3528(B)	10 uF Molded Tantalum Polymer Capacitor 25 V 1411 (3528 Metric), 1210 150mOhm TC1B106M025R0150	C2	TANT CAP 3528(B)	TANT CAP 10uF/16V 5% 3528(B)	1
CAP CER 0.1uF/50V 5% 0805	CAP CER 0.1uF/50V Ceramic Capacitor X7R 0805 (2012 Metric)	C4, C6, C7, C8, C9	CAP CER 0.1uF/50V 5%	CAP CER 0.1uF/50V 5%	5
LED-0805	Red 640nm LED Indication - Discrete 1.85V 0805 (2012 Metric) APT2012SRCPRV	D1, D2	LED-0805	LED-0805	2
ScrewHole_3.75mmD	SCREW HEAD DIA 4.5MM, SCREW LEG DIA 3MM	H1, H2, H3, H4	ScrewHole_3.75mmD	ScrewHole_3.75mmD	4
ESP32-WROOM-32S	Bluetooth, WiFi 802.11b/g/n, Bluetooth v4.2 +EDR, Class 1, 2 and 3 Transceiver Module 2.4GHz ~ 2.5GHz PCB Trace Surface Mount	IC1	ESP32-WROOM-32S	ESP32-WROOM-32S	1
2 PIN Terminal Block Connector 5.08 mm	MOLEX Screw Type, Horizontal, 5.08 Pitch, 24-12 (AWG), Terminal Block Connector, TB007-508-02BE	J1, J5	2 PIN Terminal Block Connector 5.08 mm	2 PIN Terminal Block Connector 5.08 mm	2
BURGE 5 PIN 2.54mm	MTSW-105-07-T-S-048 BURGE 5 PIN 2.54mm	J2	BURGE 5 PIN	BURGE 5 PIN	1
BURGE 4 PIN 2.54mm	Conn Unshrouded Header HDR 4 POS 2.54mm Solder ST Top Entry Thru-Hole Bulk TSW-104-17-G-S-LL	J3	BURGE 4 PIN 2.54mm	BURGE 4 PIN 2.54mm	1
BOX HEADER MALE 8X2 2.54mm	BOX HEADER MALE 8X2 2.54mm 16 pin	J4	BOX HEADER MALE 8X2 2.54mm	BOX HEADER MALE 8X2 2.54mm	1
BURGE 2X2 PIN	Connector Header Through Hole 4 position 0.100 (2.54mm), 2X2 PIN	J6	BURGE 2X2 pin	4PIN BURGE	1
RES 0805 0E/0.25W 5%	RESISTOR, THICK FILM, 10K, 5%, 0805, FRESISTOR, THICK FILM, 10K, 5%, 0805, FULL REEL Product Range: PANASONIC - ERI Series	R1, R2, R3, R4, R5, R7, R11, R12, R13, R14, R15, R16	RES 0805 10K/0.25W 5%	RES 0805 10K/0.25W 5%	12
RES 0805 470E/0.25W 5%	RESISTOR, THICK FILM, 10K, 5%, 0805, FRESISTOR, THICK FILM, 10K, 5%, 0805, FULL REEL Product Range: PANASONIC - ERI Series	R6	RES 0805 10K/0.25W 5%	RES 0805 10K/0.25W 5%	1
RES 0805 10K/0.25W 5%	RESISTOR, THICK FILM, 10K, 5%, 0805, FRESISTOR, THICK FILM, 10K, 5%, 0805, FULL REEL Product Range: PANASONIC - ERI Series	R8, R9, R17, R18, R19, R20	RES 0805 10K/0.25W 5%	RES 0805 10K/0.25W 5%	6
RES 0805 220E/0.25W 5%	RESISTOR, THICK FILM, 10K, 5%, 0805, FRESISTOR, THICK FILM, 10K, 5%, 0805, FULL REEL Product Range: PANASONIC - ERI Series	R10	RES 0805 10K/0.25W 5%	RES 0805 10K/0.25W 5%	1
RES 0805 120E/0.25W 5%	RESISTOR, THICK FILM, 10K, 5%, 0805, FRESISTOR, THICK FILM, 10K, 5%, 0805, FULL REEL Product Range: PANASONIC - ERI Series	R21	RES 0805 10K/0.25W 5%	RES 0805 10K/0.25W 5%	1
RES 0805 20K/0.25W 5%	RESISTOR, THICK FILM, 10K, 5%, 0805, FRESISTOR, THICK FILM, 10K, 5%, 0805, FULL REEL Product Range: PANASONIC - ERI Series	R22	RES 0805 10K/0.25W 5%	RES 0805 10K/0.25W 5%	1
PUSHBUTTON_SMD_6 1 x 3.7 mm, 2.5 mm	6.1 x 3.7 mm, 2.5 mm Actuator Height, 260 gF, Red, Surface Mount, SPST, Tactile Switch, TS09-63-25-R-260-SMT-TR	S1, S2	PUSHBUTTON_SMD_6 1 x 3.7 mm, 2.5 mm	PUSHBUTTON_SMD_6 1 x 3.7 mm, 2.5 mm	2
Touch Points 1mm	Touch Points 0.75mm to 1mm	TP1, TP2, TP4, TP8, TP10, TP12, TP_3.3V, TP_5V	Touch Points 1mm	Touch Points	8
MAX485CSA SOIC-8	MAX485CSA RS-485/RS-422 Transceivers, SOIC-8	U1	MAX485CSA	MAX485CSA	1
LM1117MPX-3.3V SOT-223	LM1117MPX-3.3V 800-mA 15-V linear voltage regulator SOT-223	VR1	LM1117MPX-3.3V SOT-223	LM1117MPX-3.3V SOT-223	1