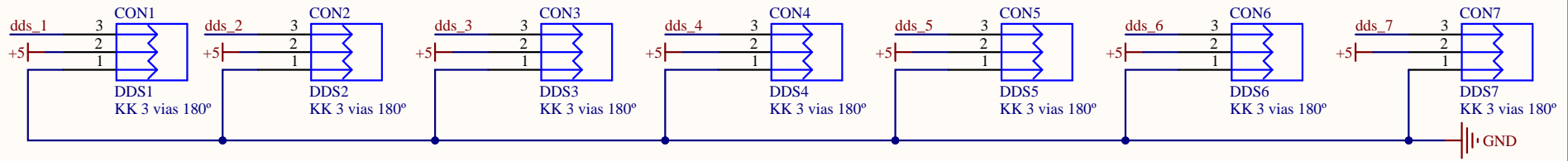
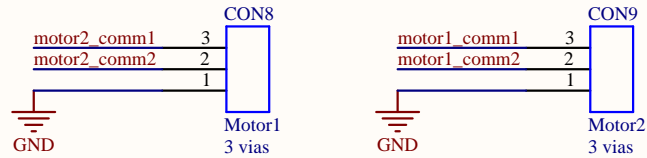


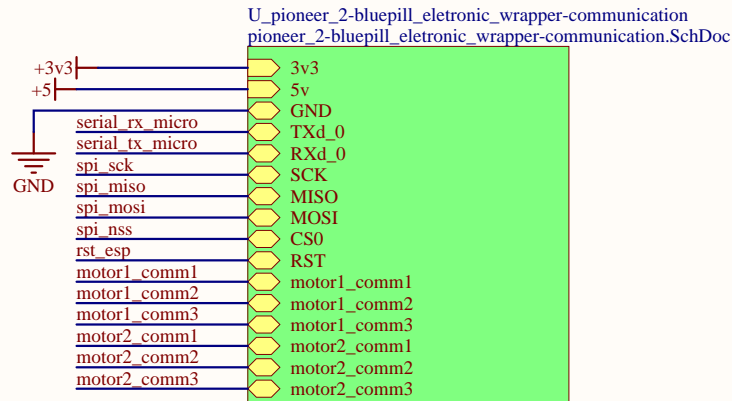
Digital Distance Sensor



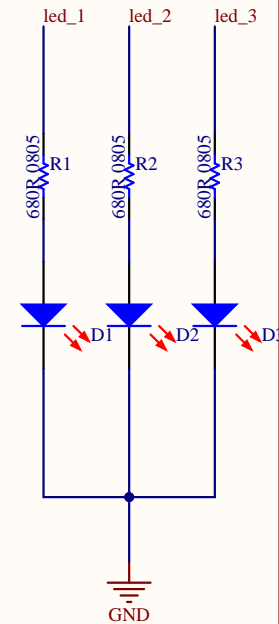
Motor Commands



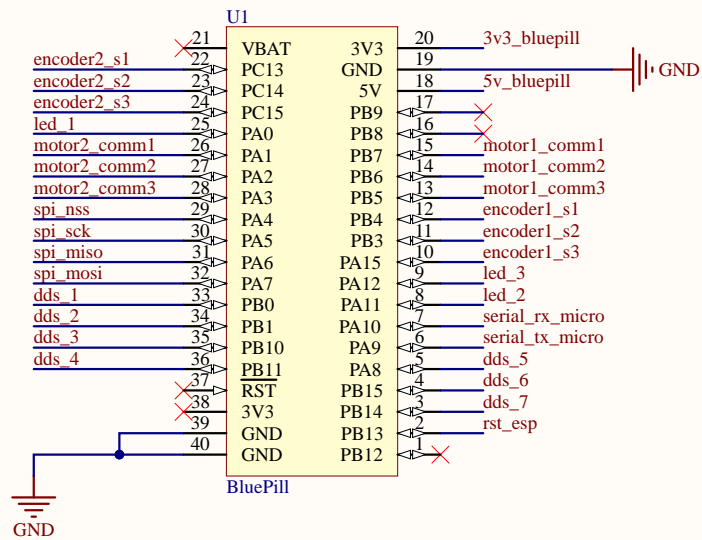
Communication



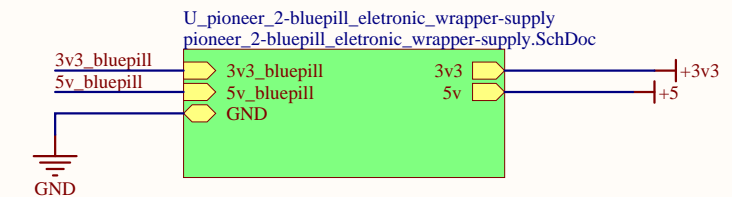
Leds



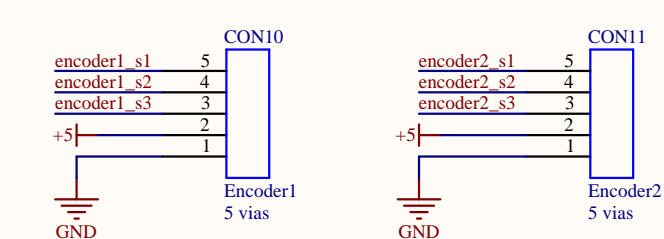
Bluepill



Voltage Supply



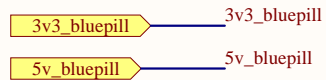
Encoders



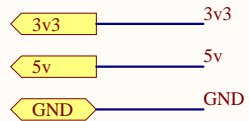
Title **pioneer_2-bluepill_eletronic_wrapper**

Size	Number	Revision
A		
Date:	11/07/2024	Sheet of
File:	C:\Users\...\pioneer_2-bluepill_eletronic_wrapper.SchDoc	

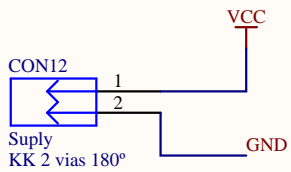
Inputs



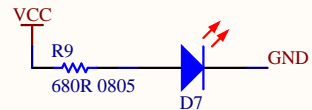
Outputs



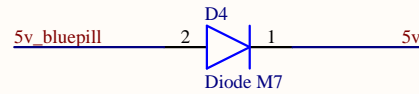
Input Supply



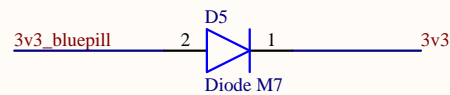
Supply Voltage Led



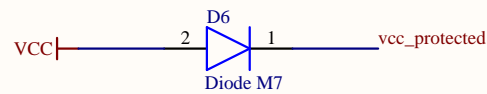
5v Protection



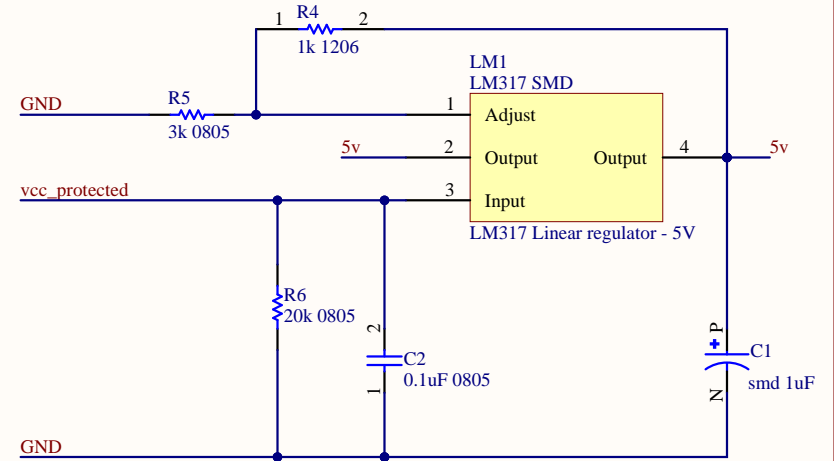
3v3 Protection



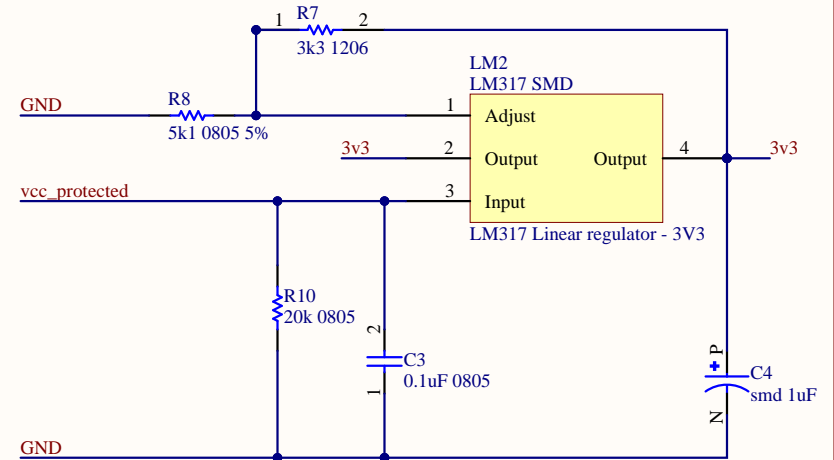
VCC Protection



Linear Regulator 5V



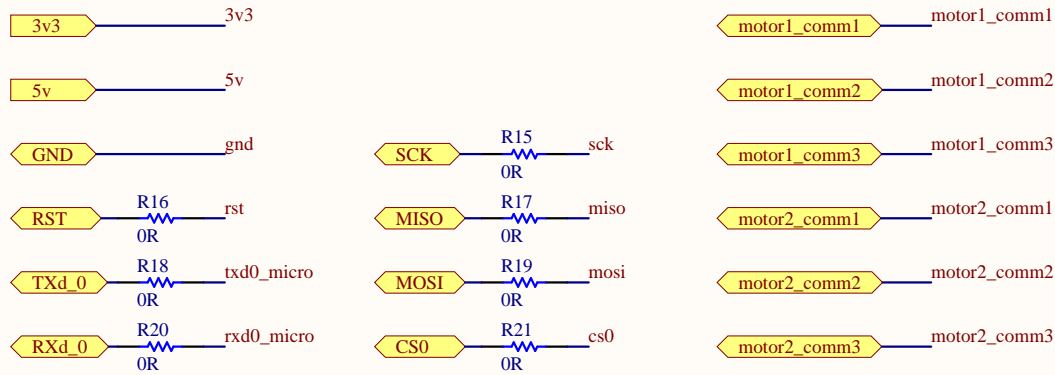
Linear Regulator 3V3



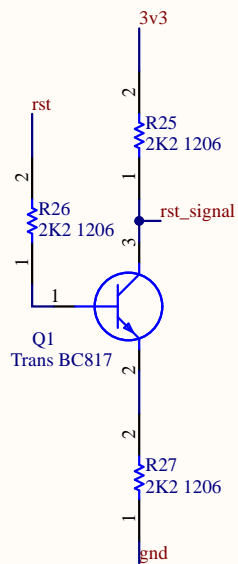
Title pioneer_2-bluepill_eletronic_wrapper-supply

Size	Number	Revision
A		
Date:	11/07/2024	Sheet of
File:	C:\Users\...\pioneer_2-bluepill_eletronic_wrapper-supply.SchDoc	

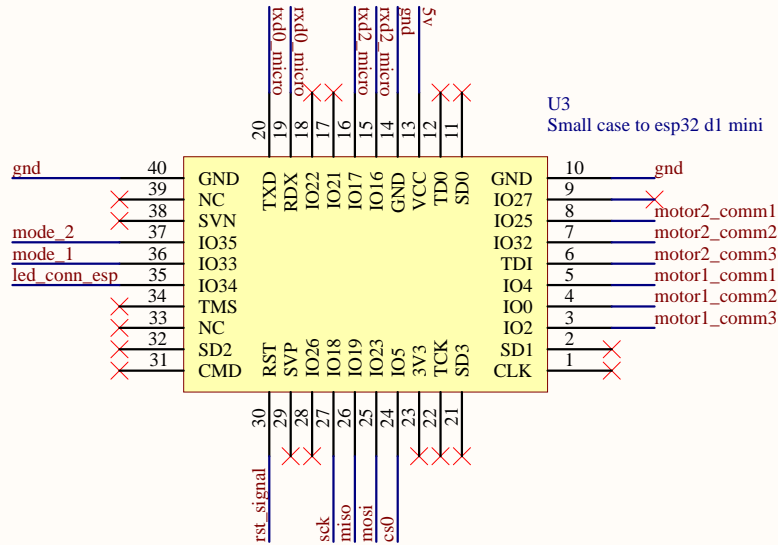
Inputs & Outputs



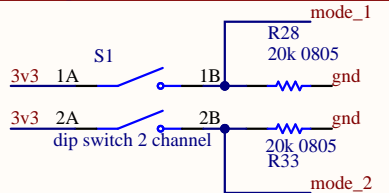
Reset



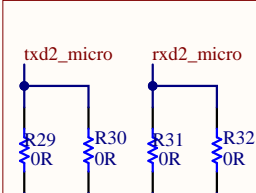
Esp32 D1 Mini - Pioneer Communication



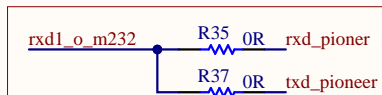
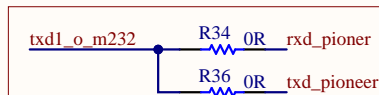
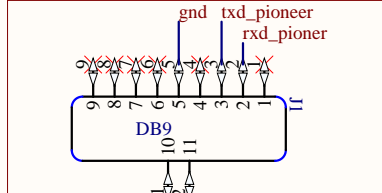
Switch Esp Mode



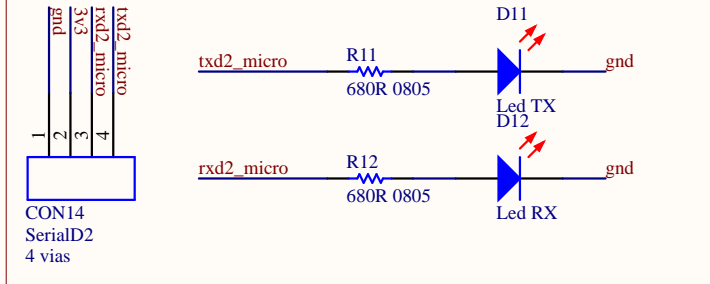
DB9 Connector



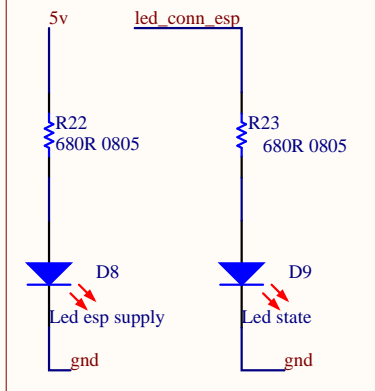
DB9 Connector



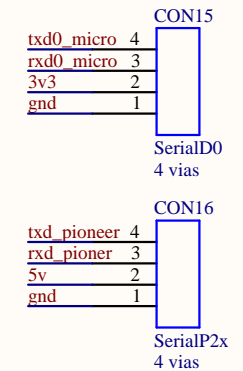
Serial



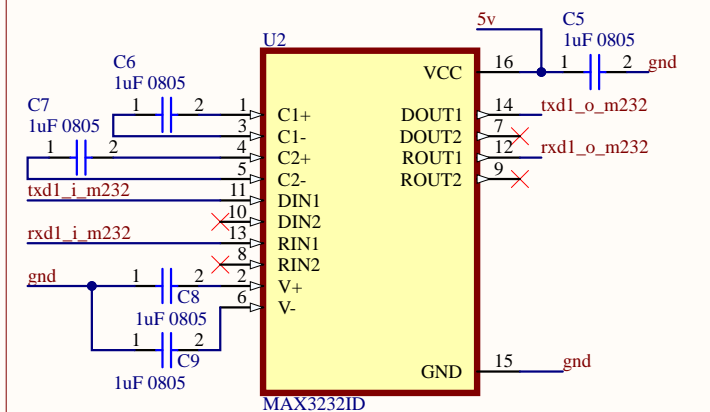
Leds - Micro Supply Voltage | Connection | State



Serial

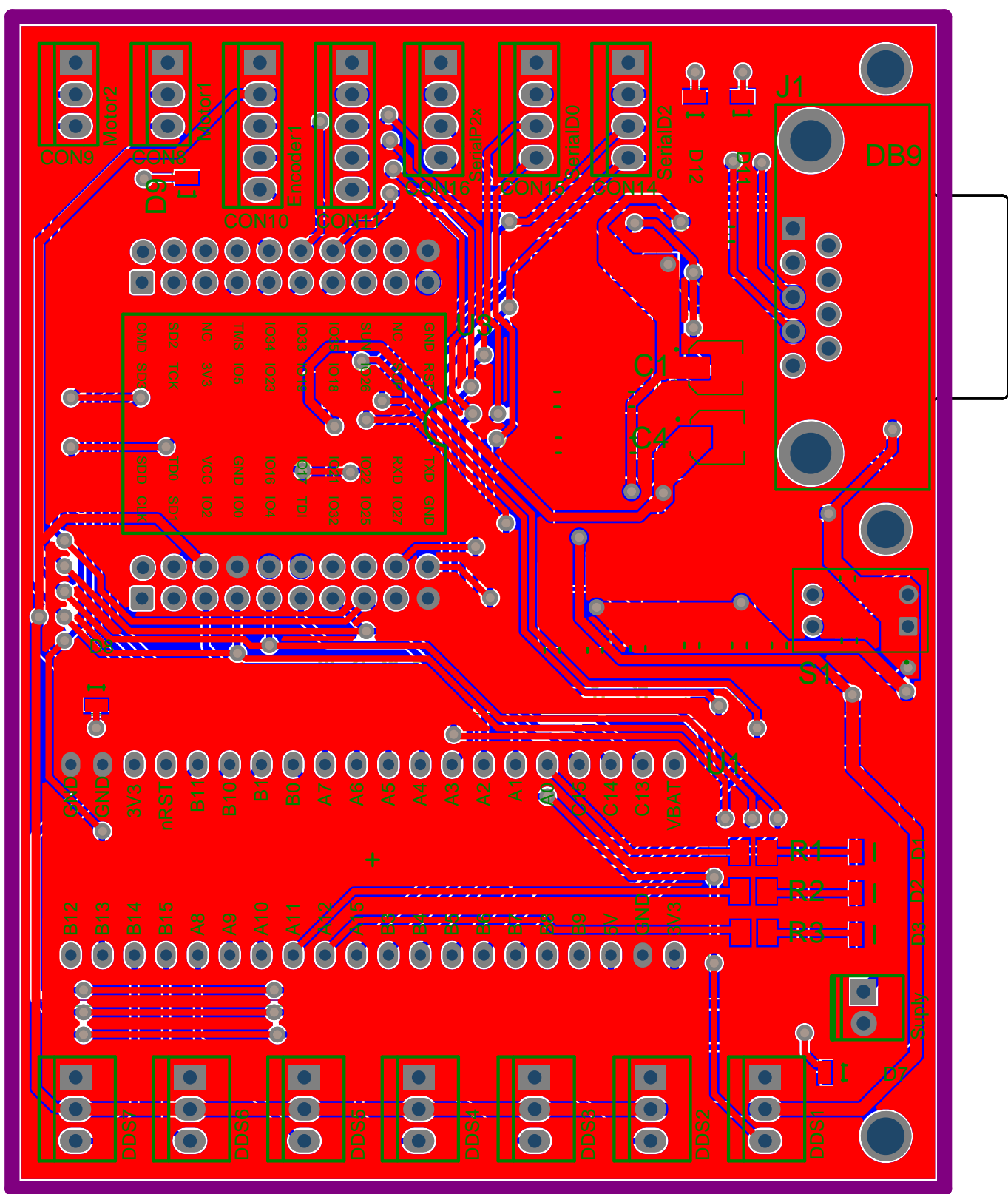


Max3232 Converter



Title **pioneer_2-bluepill_eletronic_wrapper-bluetooth**

Size	Number	Revision
A		
Date:	11/07/2024	Sheet of
File:	C:\Users\...pioneer_2-bluepill_eletronic_wrapper-communication.SchDoc	



Comment	Description	Designator	Footprint	LibRef	Quantity
smd 1uF	Aluminum Organic Polymer Capacitors smd 50volts 1uF	C1, C4	CAP_EEE1HA2R2SR	Cap. Elet. smd 1uF 50V	2
0.1uF 0805	capacitor 0805	C2, C3	CAPACITOR 0805	CAP 0805	2
1uF 0805	capacitor 0805	C5, C6, C7, C8, C9	CAPACITOR 0805	CAP 0805	5
DDS1	Conector KK 2.54mm 3 vias	CON1	KK_3vias_180º	KK_2.54_3vias	1
DDS2	Conector KK 2.54mm 3 vias	CON2	KK_3vias_180º	KK_2.54_3vias	1
DDS3	Conector KK 2.54mm 3 vias	CON3	KK_3vias_180º	KK_2.54_3vias	1
DDS4	Conector KK 2.54mm 3 vias	CON4	KK_3vias_180º	KK_2.54_3vias	1
DDS5	Conector KK 2.54mm 3 vias	CON5	KK_3vias_180º	KK_2.54_3vias	1
DDS6	Conector KK 2.54mm 3 vias	CON6	KK_3vias_180º	KK_2.54_3vias	1
DDS7	Conector KK 2.54mm 3 vias	CON7	KK_3vias_180º	KK_2.54_3vias	1
Motor1	holes 2.54mm 3 vias	CON8	3vias	2.54_3vias	1
Motor2	holes 2.54mm 3 vias	CON9	3vias	2.54_3vias	1
Encoder1	holes 2.54mm 5 vias	CON10	5vias	2.54_5vias	1
Encoder2	holes 2.54mm 5 vias	CON11	5vias	2.54_5vias	1
Suply	Conector KK 2.54mm 2 vias	CON12	KK_2VIAS_180º	KK_2.54_2vias	1
SerialD2	holes 2.54mm 4 vias	CON14	4vias	2.54_4vias	1
SerialD0	holes 2.54mm 4 vias	CON15	4vias	2.54_4vias	1
SerialP2x	holes 2.54mm 4 vias	CON16	4vias	2.54_4vias	1
LED 3MM RED	LED 3MM RED	D1, D2, D3, D7	LED RED	LED 3MM RED	4
Diode M7	Diode, SMA, 1000V, 1A, 150°C	D4, D5, D6	DIOM505270X240	Diode M7	3
Led esp supply	LED 3MM RED	D8	LED RED	LED 3MM RED	1
Led state	LED 3MM RED	D9	LED RED	LED 3MM RED	1
Led TX	LED 3MM RED	D11	LED RED	LED 3MM RED	1
Led RX	LED 3MM RED	D12	LED RED	LED 3MM RED	1
DB9	Cable Grip 0.38 - 0.50 (9.5mm - 12.7mm) Aluminum - Silver	J1	*DB9_DB9(Primary)	DB9	1
LM317 Linear regulator - 5V	SOT223	LM1	SOT-223-2	lm317 smd	1
LM317 Linear regulator - 3V3	SOT223	LM2	SOT-223-2	lm317 smd	1
Trans BC817	Transistor BJT NPN BC817-25-7-F	Q1	SOT96P240X110-3N	Trans BC817	1
680R 0805	0805	R1, R2, R3, R9, R11, R12, R22, R23	RESISTOR 0805	RES 0805 5%	8
1k 1206	RES 1206 5%	R4	RESC3216X60N	RES 1206	1
3k 0805	0805	R5	RESISTOR 0805	RES 0805 5%	1
20k 0805	0805	R6, R10, R28, R33	RESISTOR 0805	RES 0805 5%	4
3k3 1206	RES 1206 5%	R7	RESC3216X60N	RES 1206	1
5k1 0805 5%	0805	R8	RESISTOR 0805	RES 0805 5%	1
OR	0603	R15, R16, R17, R18, R19, R20, R21, R29, R30, R31, R32, R34, R35, R36, R37	RESISTOR 0603	RES 0603 5%	15
2K2 1206	RES 1206 5%	R25, R26, R27	RESC3216X60N	RES 1206	3
dip switch 2 channel	DS02-254-2L-02BE	S1	SW_DS02-254-2L-02BE	dip switch 2 channel	1
BluePill	BluePill - STMduino (STM32F103)	U1	BluePill	CMP-010-000000-1	1
MAX3232ID	3-V to 5.5-V multichannel RS-232 line driver & receiver 16-SOIC -40 to 85	U2	SOIC127P600X175-16N	MAX3232ID	1
Small case to esp32 d1 mini	ESP32 D1 Mini	U3	ESP32 D1 MINI	ESP32 D1 Mini	1