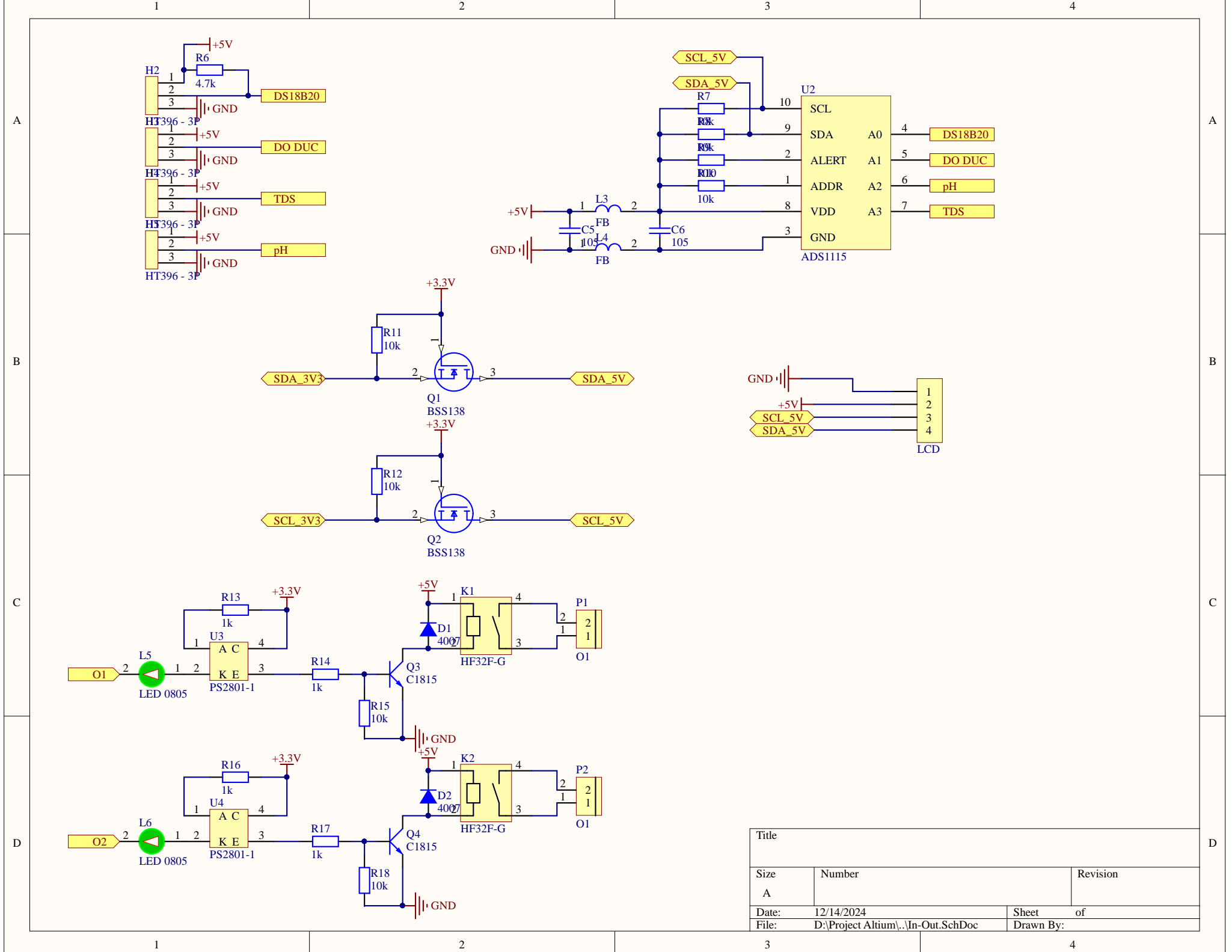
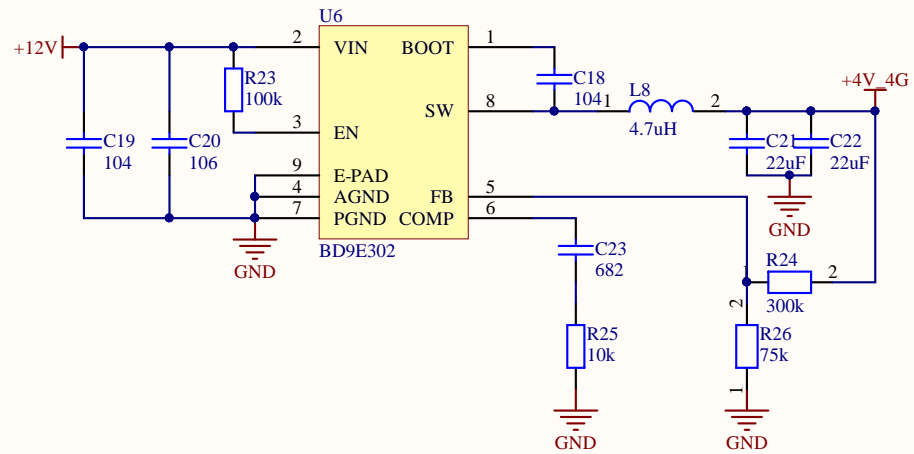
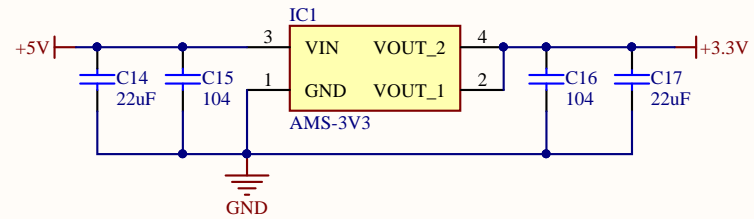
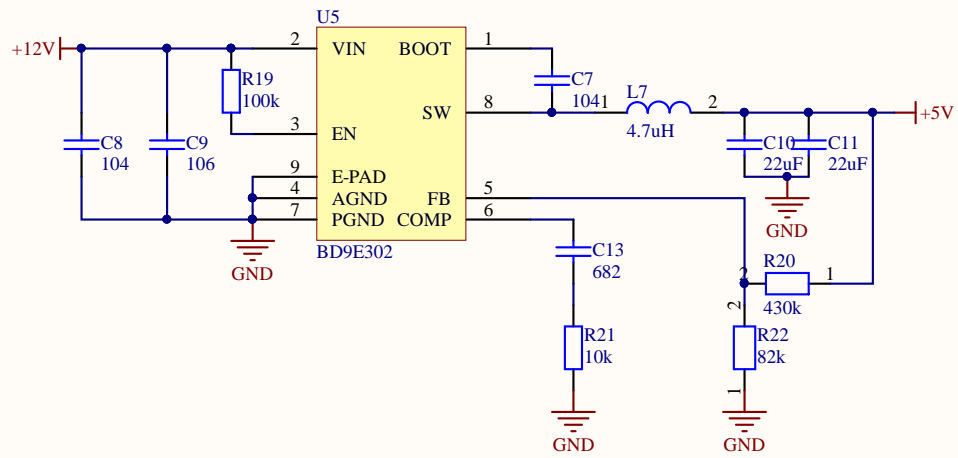
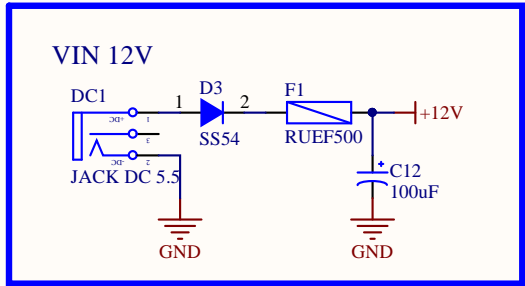


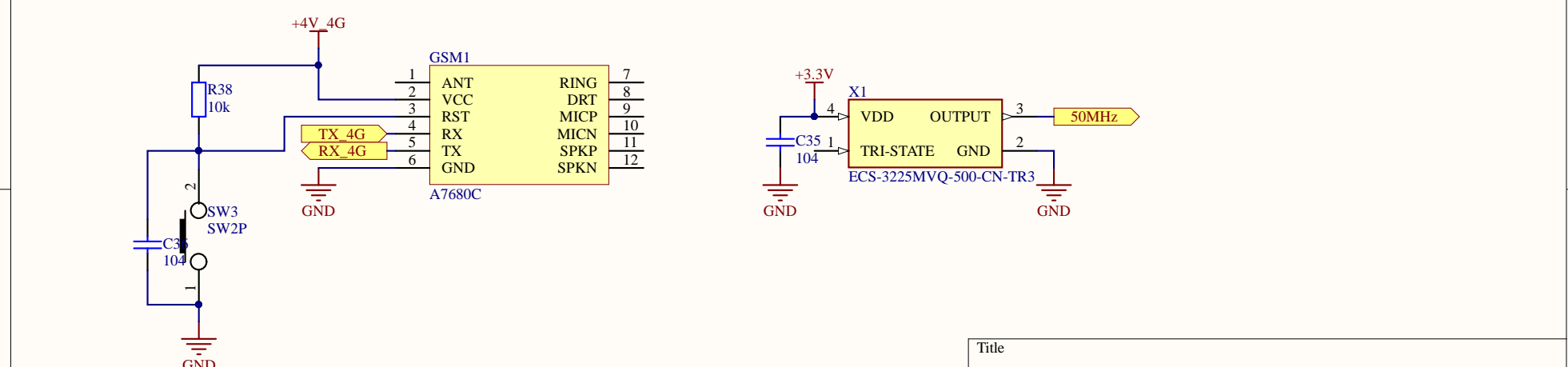
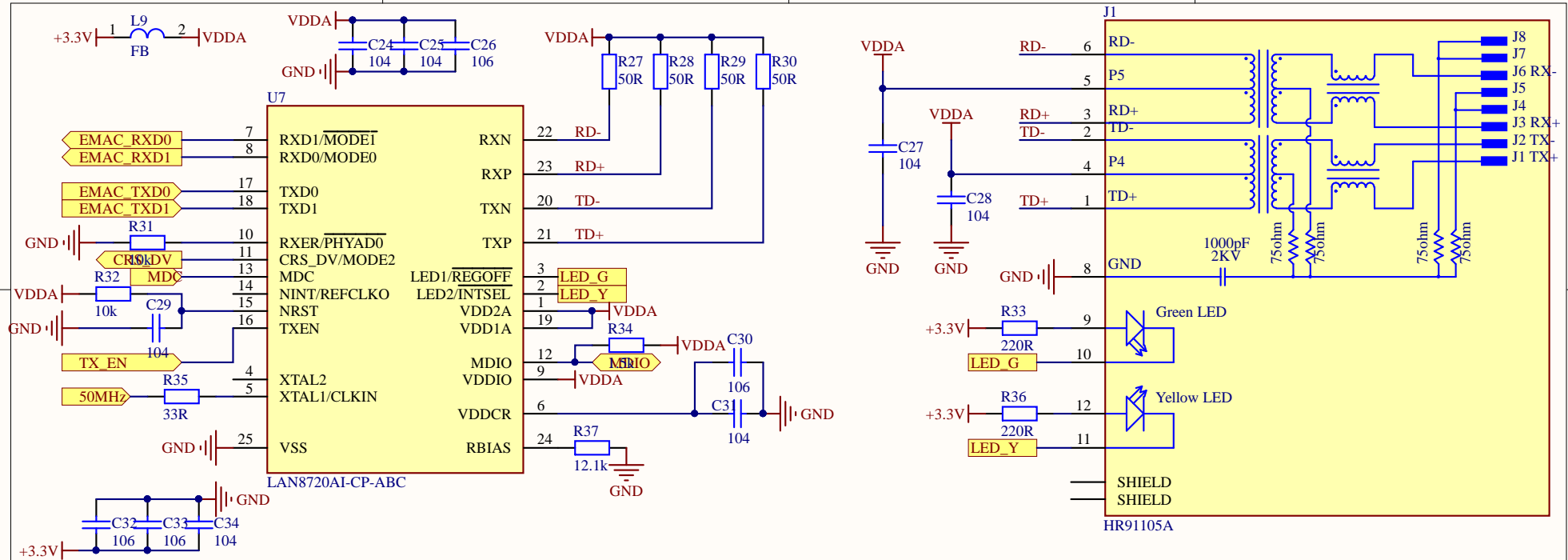
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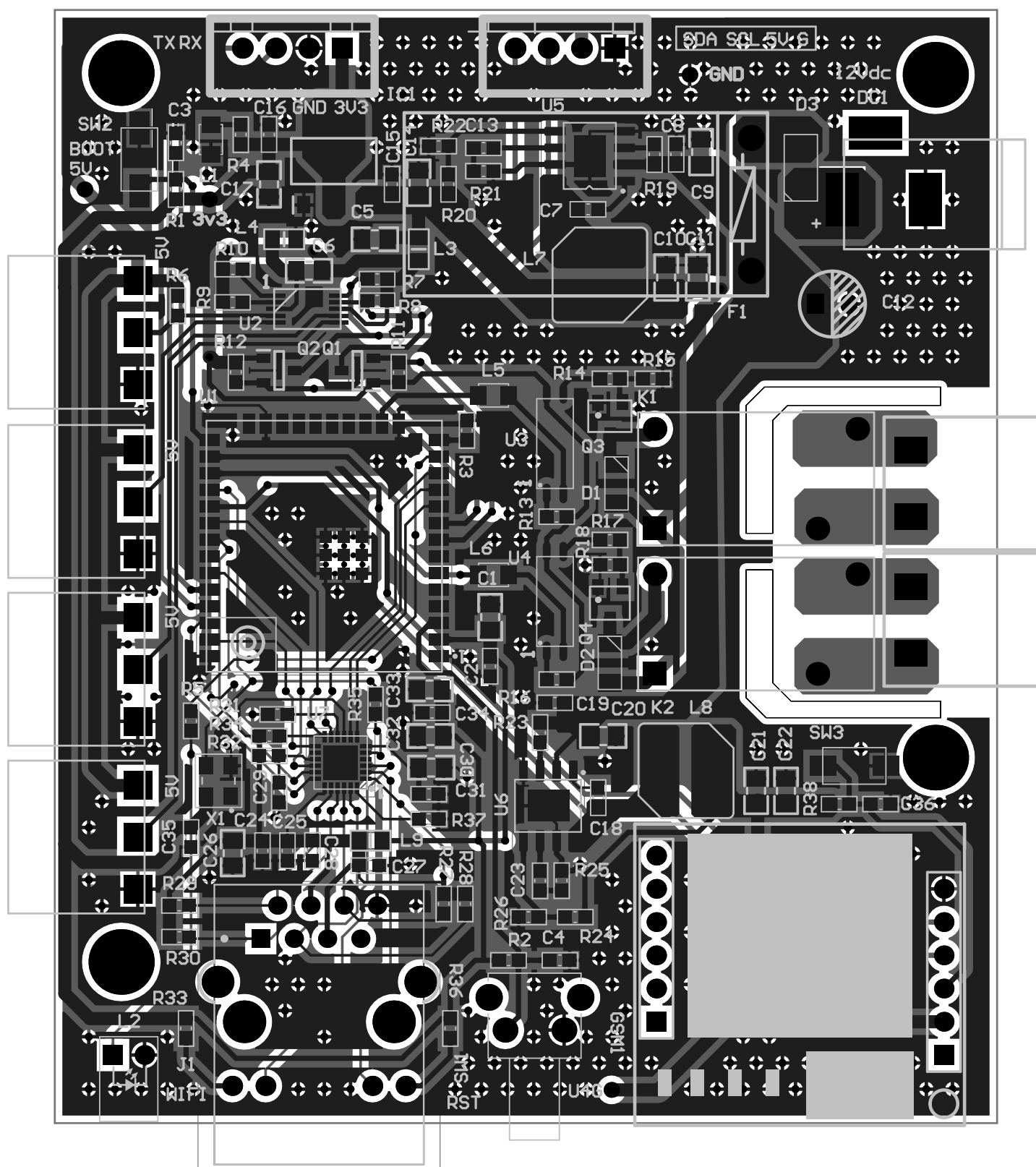
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Title		
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Date:	12/14/2024	Sheet of
File:	D:\Project Altium\...\Protocol.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
106	Dán	C1, C9, C20, C26, C30, C32, C33	tu 0805	Tu 0805 106 16V 10%	7
104	Dán	C2, C3, C4, C7, C8, C15, C16, C18, C19, C24, C25, C27, C28, C29, C31, C34, C35, C36	tu 0603	Tu 0603 104 50V 10%	18
105	Dán	C5, C6	tu 0805	Tu 0805 105 50V 10%	2
22uF	0805 22uF	C10, C11, C14, C17, C21, C22	Tu 0805	0805-22uF	6
100uF	Cắm	C12	tu hoa 5mm	Tu Hoa 100uF 25V 6x11	1
682	cap 0603_682_6800pF_6.8nF	C13, C23	Tu 0603	0603_682_6800pF_6.8nF	2
4007	Schottky Diode	D1, D2	1n4148_SOD123	1N4007-SMD	2
SS54	Diode Schottky SS54	D3	SS54	SS54	1
JACK DC 5.5	JACK DC 5.5	DC1	JACK DC 5.5	JACK DC 5.5	1
RUEF500	Resettable Fuse 5A 30V	F1	RUEF500 - duplicate	RUEF500	1
A7680C	Module Sim 4G A7680C	GSM1	Module 4G A7680C	Module A7680C	1
BOOT	Cắm	H1	XH2.54M-4	Header 4P 2.54 Duc Thang	1
HT396 - 3P	Header terminal HT396 3.96mm 3P	H2, H3, H4, H5	HT396 - 3P	HT396 - 3P	4
LCD	Cắm	H6	XH2.54M-4	Header 4P 2.54 Duc Thang	1
AMS-3V3	IC power AMS1117 3V3	IC1	SOT229P700X180-4N	ams1117-3.3v	1
HR91105A	DIP RJ45 Connector	J1	HANRUN_HR91110 5A	HR911105A	1
HF32F-G		K1, K2	HF32F-G	HF32F-G	2
LED 0805	Dán	L1	LED-0805-Red	LED 0805 Do	1
Led		L2	Led housing	Led housing	1
FB	Ferrite 0805 30Ohm	L3, L4, L9	FB0805 30 Ohm	FB0805 30ohm	3
LED 0805	Dán	L5, L6	LED-0805-Green	LED 0805 Xanh La	2
4.7uH	Inductor CDRH6D38NP-4R7-4.7uH	L7, L8	CDRH6D38-4R7	CDRH6D38NP-4R7-4.7uH	2
O1	Cắm	P1, P2	CON 2 2EDG5.08	CON 2 EDG5.08	2
BSS138	mosfet N	Q1, Q2	SOT-23	BSS138	2
C1815	NPN 600mW, ECB	Q3, Q4	SOT23B	C1815	2
10k	Dán	R1, R2, R3, R7, R8, R9, R10, R11, R12, R15, R18, R21, R25, R31, R32, R38	tro smd 0603	Tro 0603 1% 10k, Tro 0603 5% 10k	16
330R	Dán	R4, R5	tro smd 0603	Tro 0603 5% 330R	2
4.7k	Dán	R6	tro smd 0603	Tro 0603 5% 4.7k	1
1k	Dán	R13, R14, R16, R17	tro smd 0603	Tro 0603 5% 1k	4
100k	Dán	R19, R23	tro smd 0603	Tro 0603 5% 100k	2
430k	Resistor	R20	TRO SMD 0603	R0603_430k_1%	1
82k	Resistor	R22	TRO SMD 0603	R0603_82k_1%	1
300k	R 0603	R24	TRO SMD 0603	R_0603	1
75k	R 0603	R26	TRO SMD 0603	R_0603	1
50R	Dán	R27, R28, R29, R30	tro smd 0603	Tro 0603 1% 56R	4
220R	Dán	R33, R36	tro smd 0603	Tro 0603 5% 220R	2
1.5k	Dán	R34	tro smd 0603	Tro 0603 5% 1.5k	1
33R	Dán	R35	tro smd 0603	Tro 0603 5% 33R	1
12.1k	Dán	R37	tro smd 0603	Tro 0603 5% 15k	1
SW	Switch button 2 pin	SW1	SW1-DIP	SW2	1
SW2P		SW2, SW3	SW_2P_smd	sw_2p_smd	2
ESP32-Wroom-32U		U1	XCVR_ESP32-WROOM-32U	ESP32-Wroom-32U	1
ADS1115	IC ADS1115 ADC 16BIT 4CHANNEL	U2	ADS1115	ADS1115	1
PS2801-1		U3, U4	PS2801	PS2801-1	2
BD9E302	IC power buck DC/DC	U5, U6	BD9E302	BD9E302	2
LAN8720AI-CP-ABC	Microchip LAN8720AI-CP-ABC Ethernet Transceiver, IEEE802.3/802.3u, ISO 802-3/IEEE802.3, 100Mbit/s 3.3 V, 24-Pin QFN	U7	LAN8720A	LAN8720AI-CP-ABC	1
ECS-3225MVQ-500-CN-TR3	Standard Clock Oscillators 50.000 MHz Multi-Volt 1.6 - 3.6 V +/-25ppm - 40 - +85C AEC-Q200 RoHS	X1	OSC_ECS-3225MVQ-500-CN-TR3	ECS-3225MVQ-500-CN-TR3	1