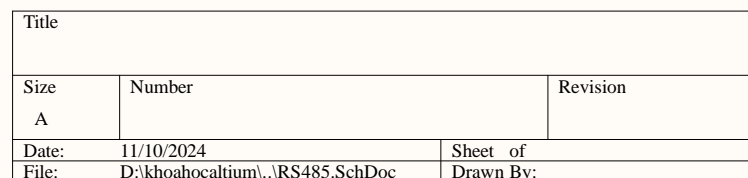
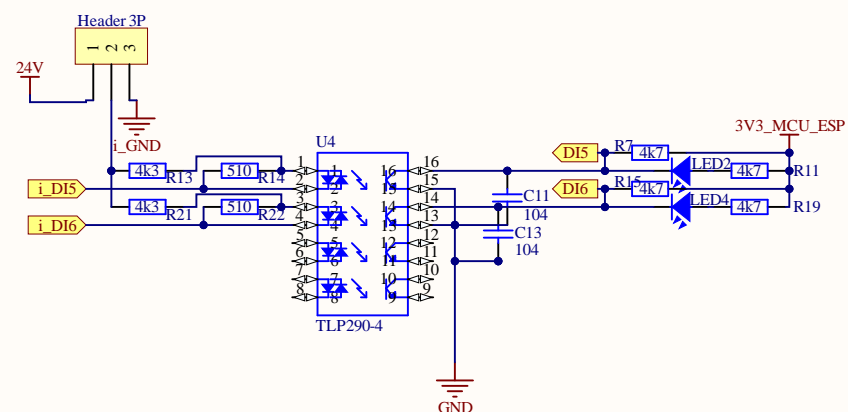
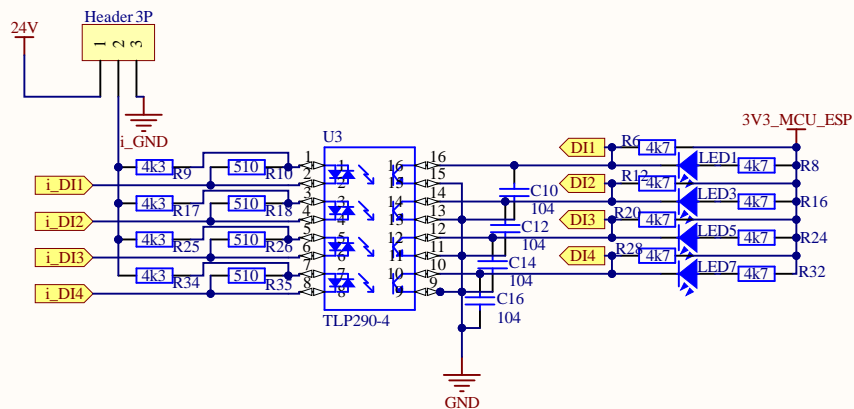
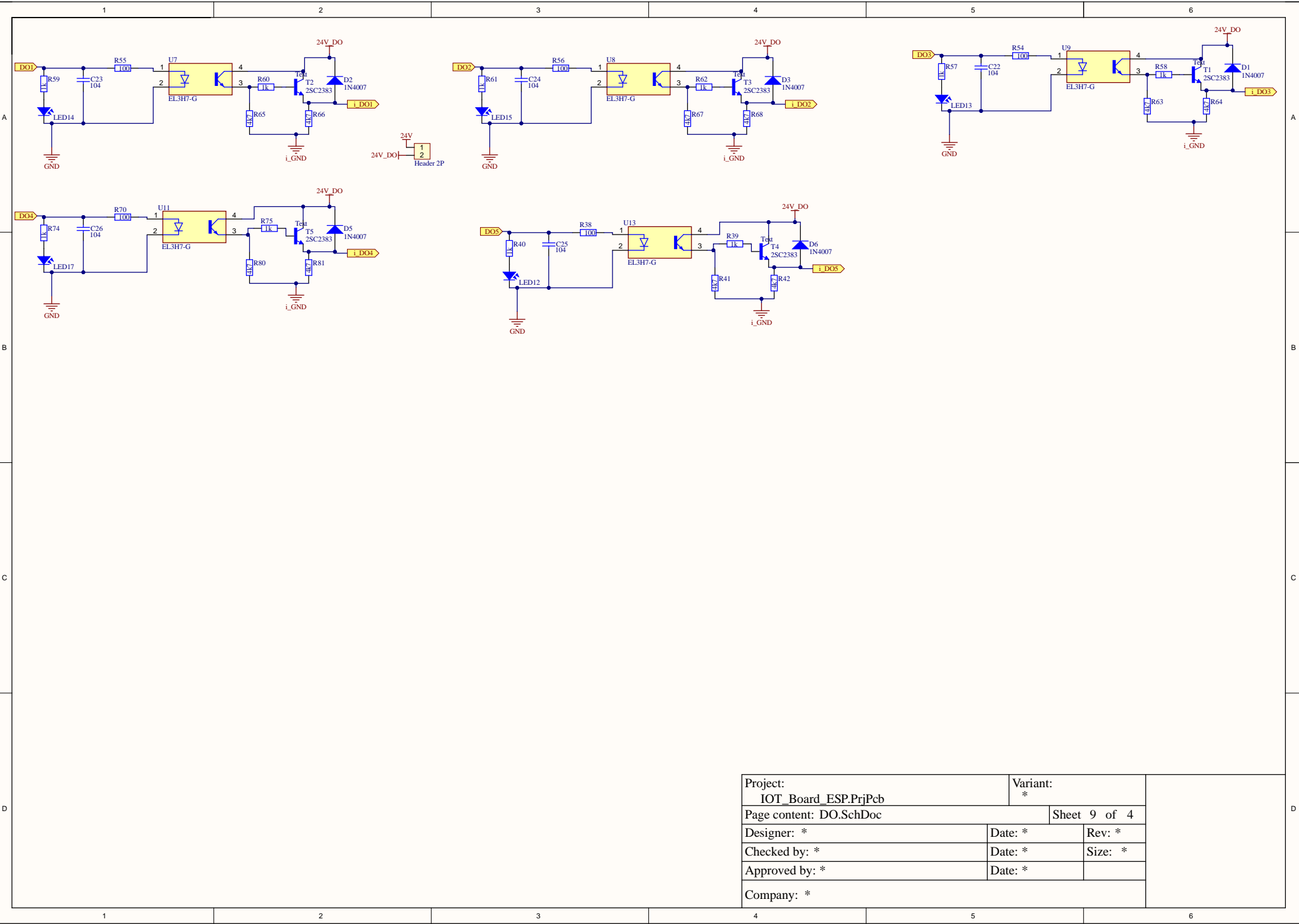


ESP32 Functions		Headers	
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Page content: IOT_BOARD1.SchDoc		Sheet 9 of 1	
Designer: *		Date: *	Rev: *
Checked by: *		Date: *	Size: *
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Company: *			

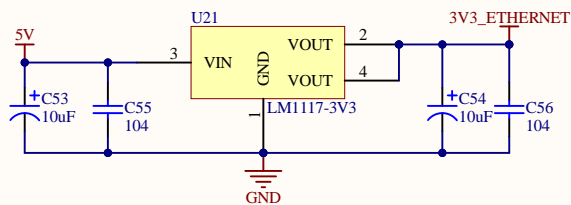
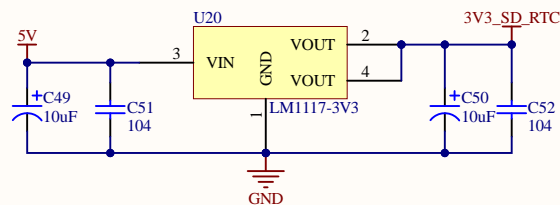
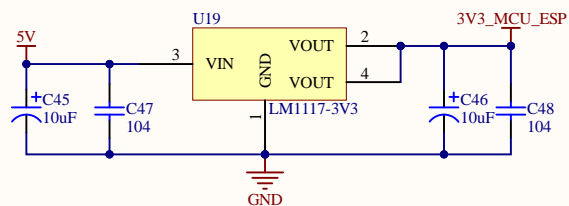
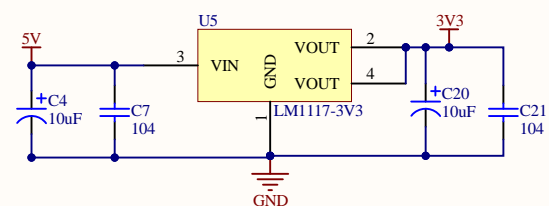
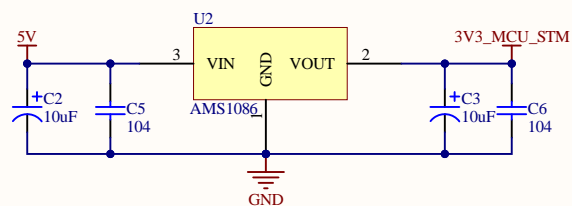
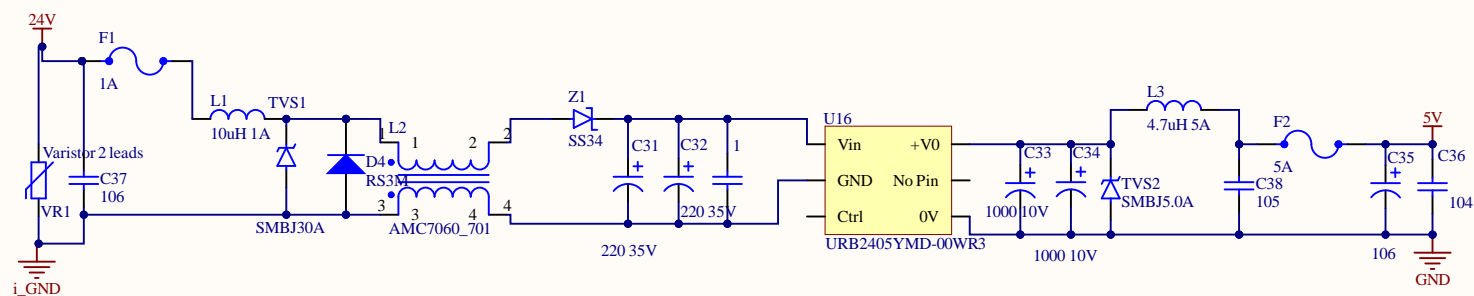




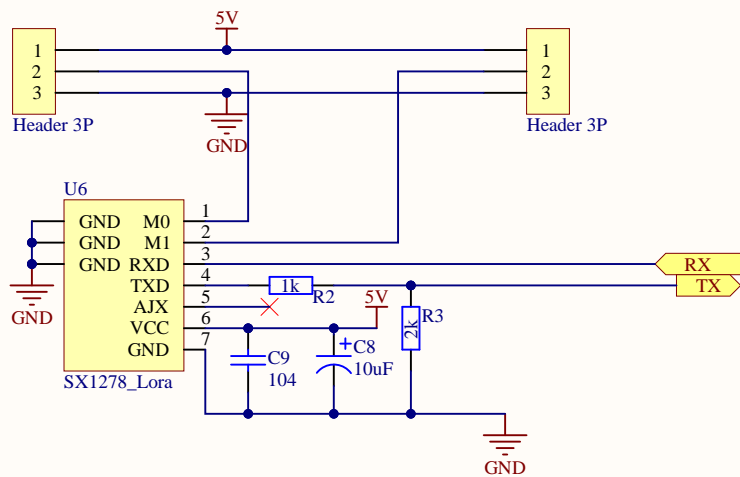
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Page content: DI.SchDoc		Sheet 9 of 3	
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Company: *			



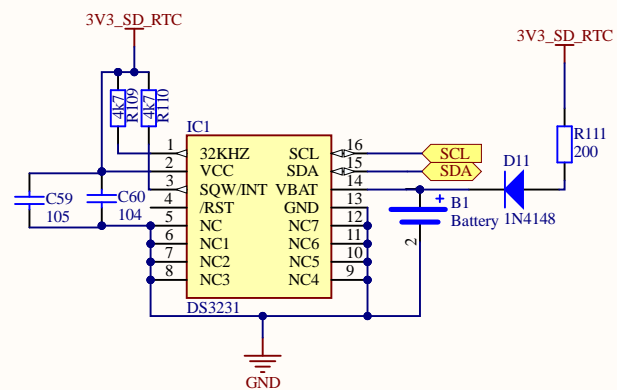
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Approved by: *	Date: *		
Company: *			



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Page content: POWER.SchDoc		Sheet 9 of 5	
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Approved by: *	Date: *		
Company: *			



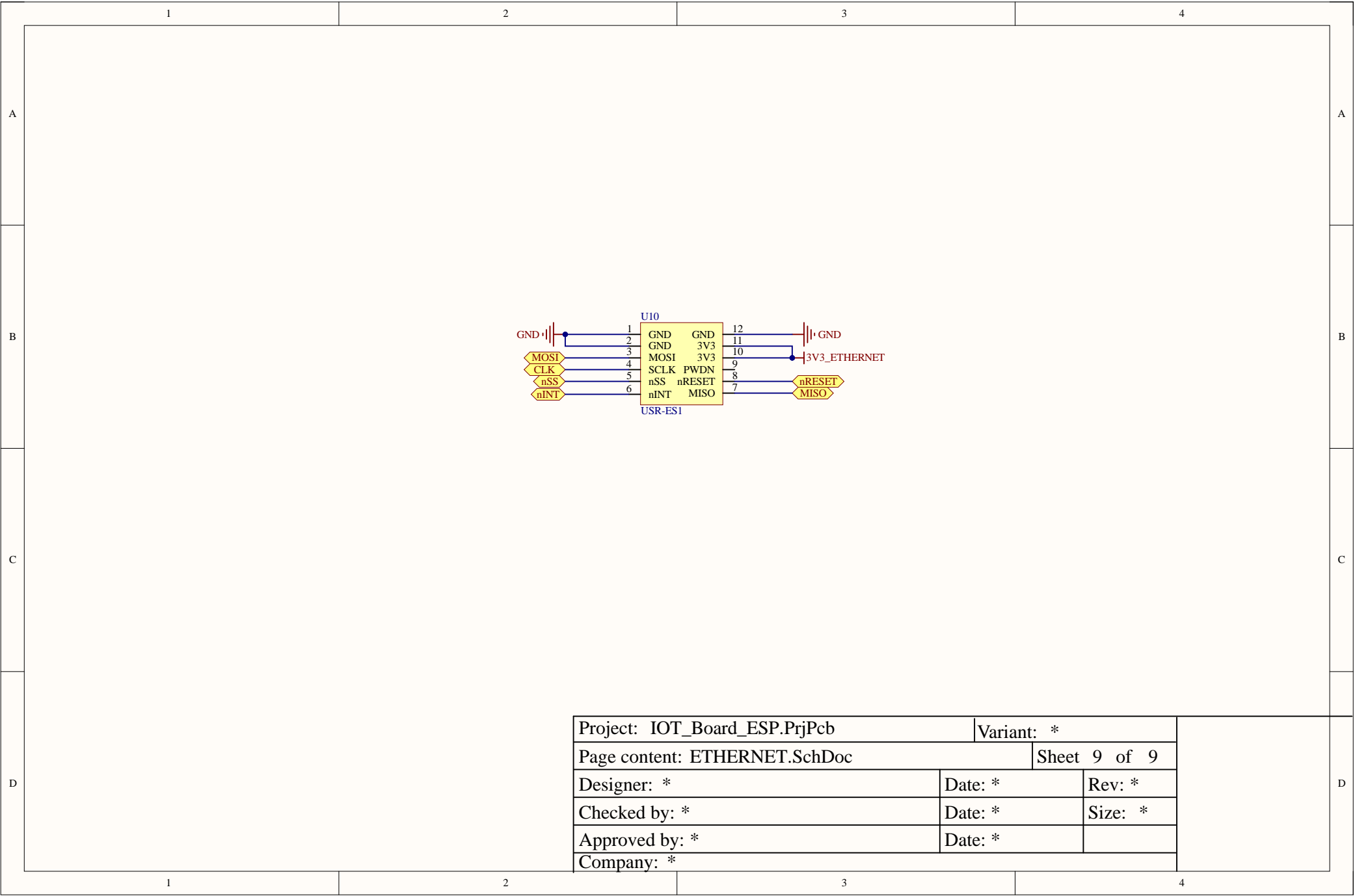
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Page content: RTC.SchDoc		Sheet 9 of 7	
Designer: *	Date: *	Rev: *	
Checked by: *	Date: *	Size: *	
Approved by: *	Date: *		
Company: *			







LibRef	Comment	Designator	Footprint	Quantity	Description
AMS1086	AMS1086	U2	TO-252	1	
Antenna	Antenna	ANT1	ANTENNA	1	
Batt	Battery	B1	CR2032_bat_holder	1	
Ceramic Capacitor	107	C1	0805_Cap	1	
Ceramic Capacitor	101	C18, C19	0603_Cap	2	
Ceramic Capacitor	104	C1, C5, C6, C7, C9, C10, C11, C12, C13, C14, C16, C21, C22, C23, C24, C25, C26, C47, C48, C51, C52, C55, C56, C60	0603_Cap	24	
Ceramic Capacitor	104	C36	0805_Cap	1	
Ceramic Capacitor	105	C15, C17, C59	0603_Cap	3	
Ceramic Capacitor	105	C38	1206_CAP	1	
Ceramic Capacitor	106	C61	0603_Cap	1	
Diode	1N4007	D1, D2, D3, D5, D6	SMA- DO-214AC	5	
Diode	1N4148	D11	SOD-323	1	
Diode	RS3M	D4	SMC - DO-214	1	
DS3231	DS3231	IC1	SOIC-16	1	Real Time Clock (RTC) IC Clock/Calendar - I <sup>2</sup> C, 2-Wire Serial 8-SOIC (0.154, 3.90mm Width)
EL3H7-G	EL3H7-G	U7, U8, U9, U11, U13	SSOP-4	5	Optoisolator Transistor Output 3750Wrms 1 Channel 4-SSOP
ESP32-S	ESP32-S	U1	ESP32-S	1	
Fuse	0.1A	F3, F4	1812_FUSE	2	Polymeric PTC Resettable Fuse 12V 2.2 6A 1h Surface Mount 1206 (3216 Metric), Concave
Fuse	1A	F1	1812_FUSE	1	Polymeric PTC Resettable Fuse 12V 1.2 6A 1h Surface Mount 1206 (3216 Metric), Concave
Fuse	5A	F2	1812_FUSE	1	Polymeric PTC Resettable Fuse 12V 1.2 6A 1h Surface Mount 1206 (3216 Metric), Concave
Header 2P	Header 2P	H4	CON 2 EDG5.08-2P	1	THT
Header 2P	Header 2P	H5, H10, H11, H12	JP 1x2	4	THT
Header 3P	Header 3P	H7, H8, H21, H22	JP 1X3	4	THT
Header 3P	Header 3P	H9	CON 3 EDG5.08-3P	1	THT
Header 4P	Header 4P	H3	JP 1x4	1	THT
Header 5P	Header 5P	H2, H16	JP 1X5	2	THT
Header 5P	Header 5P	H14	CON 5 EDG5.08-5P	1	THT
Header 6P	Header 6P	H6	CON 6 EDG5.08-6P	1	THT
Header 6P	Header 6P	H15	JP 1x6	1	THT
Header 6P 2.54 Duc Cong	Header 6P 2.54 Duc Cong	H1	Header 6P DC 2.54	1	Cân
HEADER 5	HDS	P1	JUMP 5	1	
Inductor	4.7uH 5A	L3	Inductor 5A	1	Inductors from EPCOS include SMT Inductors, SMT Power Inductors, Transponder Coils, ISDN Transformers, xDSL Transformers, DC/DC Converters, RF Transformers and SMT Current Sense Transformers.
Inductor	10uH	L4	0603_Inductor	1	Inductors from EPCOS include SMT Inductors, SMT Power Inductors, Transponder Coils, ISDN Transformers, xDSL Transformers, DC/DC Converters, RF Transformers and SMT Current Sense Transformers.
Inductor	10uH 1A	L1	0603_Inductor	1	Inductors from EPCOS include SMT Inductors, SMT Power Inductors, Transponder Coils, ISDN Transformers, xDSL Transformers, DC/DC Converters, RF Transformers and SMT Current Sense Transformers.
Inductor_1	AMC7060_701	L2	Double Inductor	1	Common mode choke cuon cam xuyen
JP4x2	JP4x2	C1	JP4-D2T	1	WR-PHD 2.54 mm Dual Socket Header
LED	LED	LED1, LED2, LED3, LED4, LED5, LED7, LED9, LED10, LED11, LED12, LED13, LED14, LED15, LED17	0603_LED	14	LED single color 2 leads
LM1117-3V3	LM1117-3V3	U5, U19, U20, U21	SOT-223	4	
Micro SD card socket 9P	Micro SD card socket 9P	J1	Micro SD card socket	1	9 (8 + 1) Position Card Connector microSD Surface Mount, Right Angle Gold
Polarized Capacitor	10uF	C2, C3, C4, C8, C20, C45, C46, C49, C50, C53, C54	1206_CAP	11	Polarized Capacitor
Polarized Capacitor	220 35V	C31, C32	8x12 radial capacitor	2	Polarized Capacitor
Polarized Capacitor	1000 10V	C33, C34	8x12 radial capacitor	2	Polarized Capacitor
Polarized Capacitor, Ceramic Capacitor	106	C35, C37	1206_CAP	2	Polarized Capacitor, [NoValue]
Resistor	1k	R2, R39, R40, R57, R58, R59, R60, R61, R62, R74, R75	0603_Res	11	
Resistor	2k	R3	0603_Res	1	
Resistor	4k3	R9, R13, R17, R21, R25, R34	0603_Res	6	
Resistor	4k7	R1, R6, R7, R8, R11, R12, R15, R16, R19, R20, R24, R28, R32, R41, R42, R63, R64, R65, R66, R67, R68, R69, R81, R109, R110, R23, R26, R37, R112, R113, R114, R115	0603_Res	25	
Resistor	10k	R27, R33	0603_Res	2	
Resistor	22	R38, R54, R55, R56, R70	0603_Res	5	
Resistor	120	R31	0603_Res	1	
Resistor	200	R111	0603_Res	1	
Resistor	220	R29, R30	0603_Res	2	
Resistor	510	R10, R14, R18, R22, R26, R35	0603_Res	6	
SW-Button	SW	B11	BUTTON RIGHT ANGLE	1	Switch-Button
SK1278_Lora	SK1278_Lora	U6	SK1278 module	1	
TD301D48SH-A	TD501D48SH-A	U12	TD301D48SH-A	1	TL1 to RS485
TLP290-4	TLP290-4	U3, U4	SO16	2	Optoisolator Transistor Output 2500Wrms 4 Channel 16-SO
Trans NPN	2SC2383	T1, T2, T3, T4, T5	SOT-89	5	
TVS Bi Diode	SMB12CA	TV53, TV54, TV55	SMB - DO-214AA	3	
TVS Uni Diode	SMB15.0A	TV52	SMB - DO-214AA	1	
TVS Uni Diode	SMB15.0A	TV51	SMC - DO-214	1	
URB2405YMD-Q0WR3	URB2405YMD-Q0WR3	U16	URB2405YMD-xxWR3	1	
USR-E51	USR-E51	U10	USR-E51	1	Ethernet module
Varistor	Varistor 2 leads	W1	Varistor	1	
Zener Diode	SS34	Z1	SMB - DO-214AA	1	