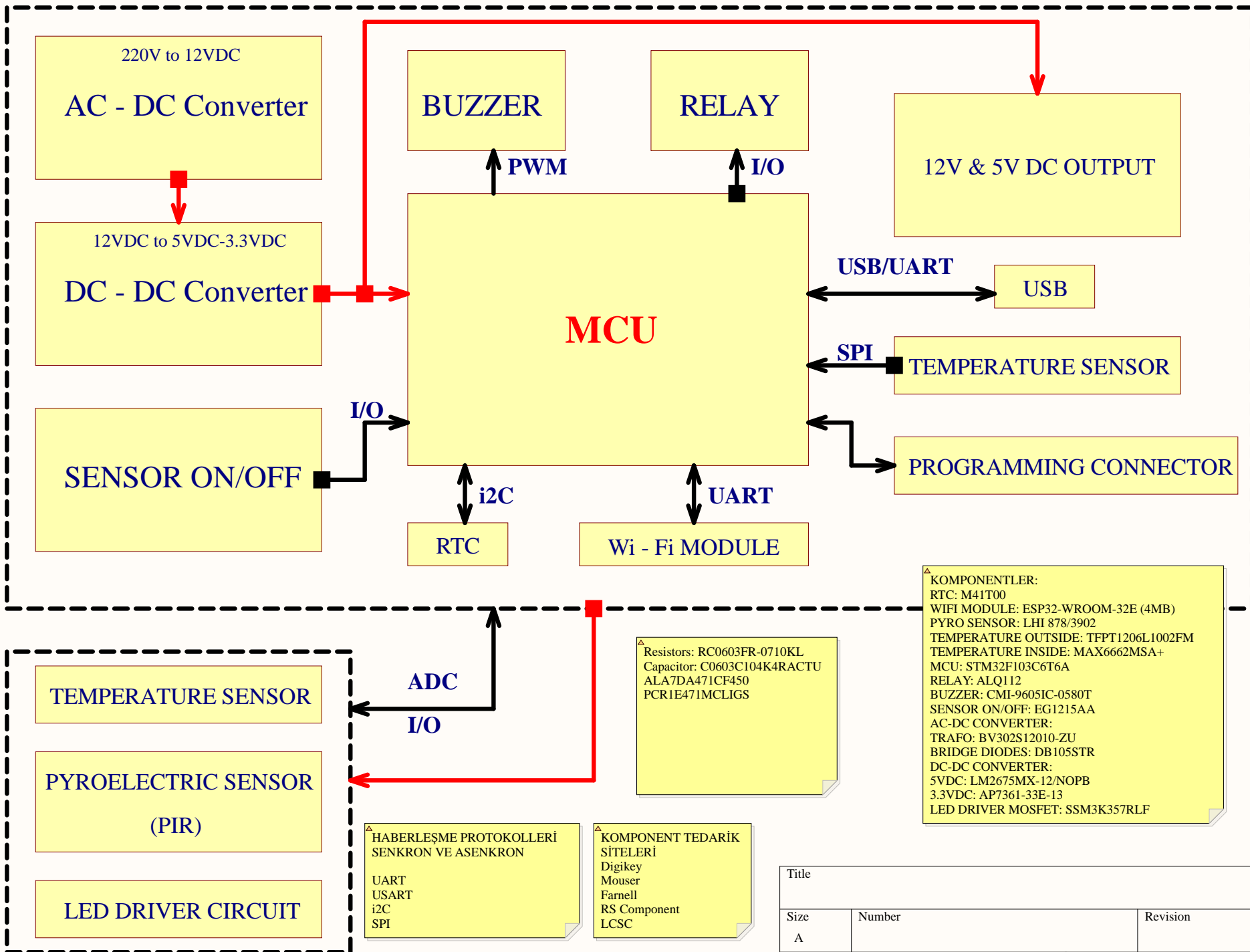
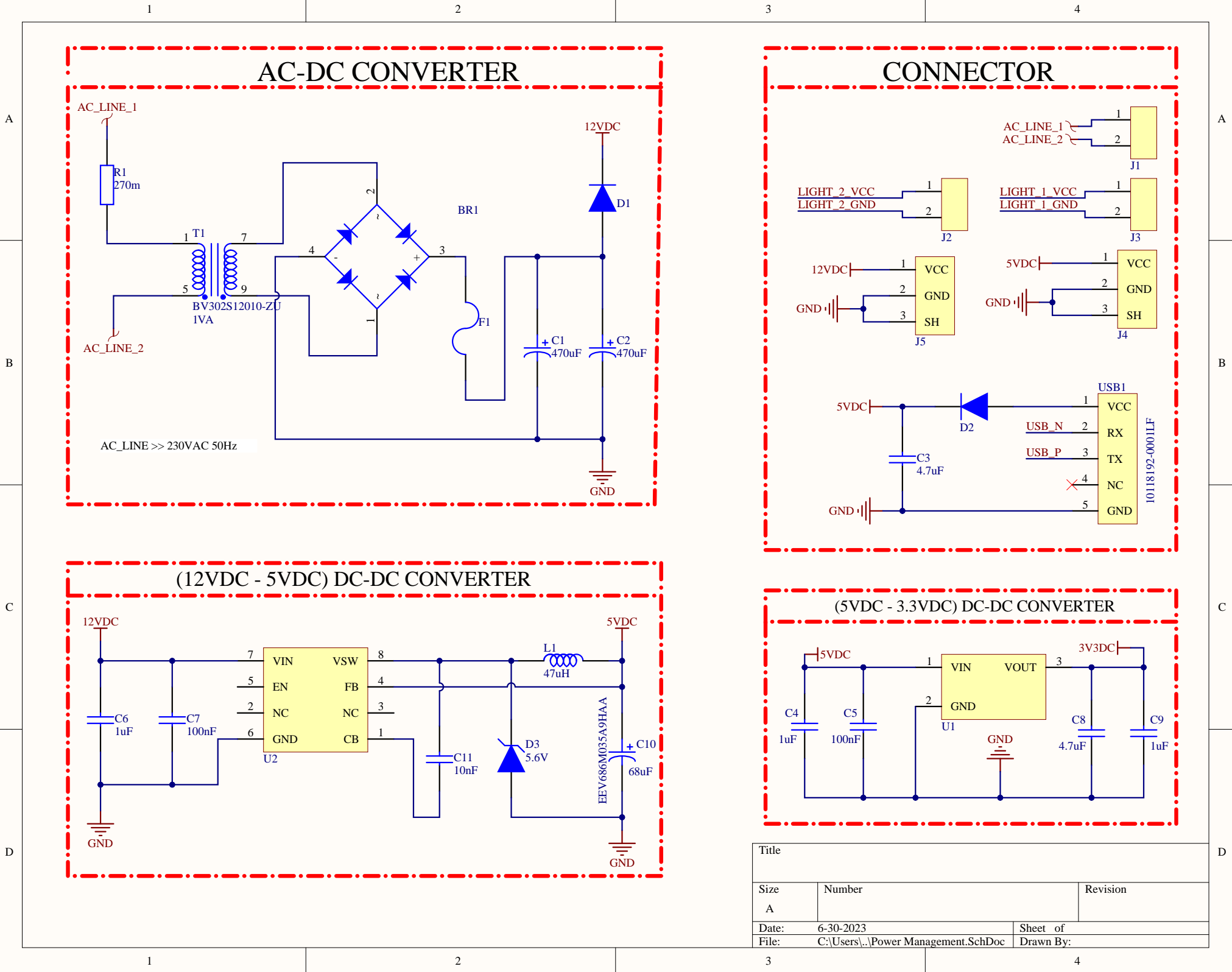


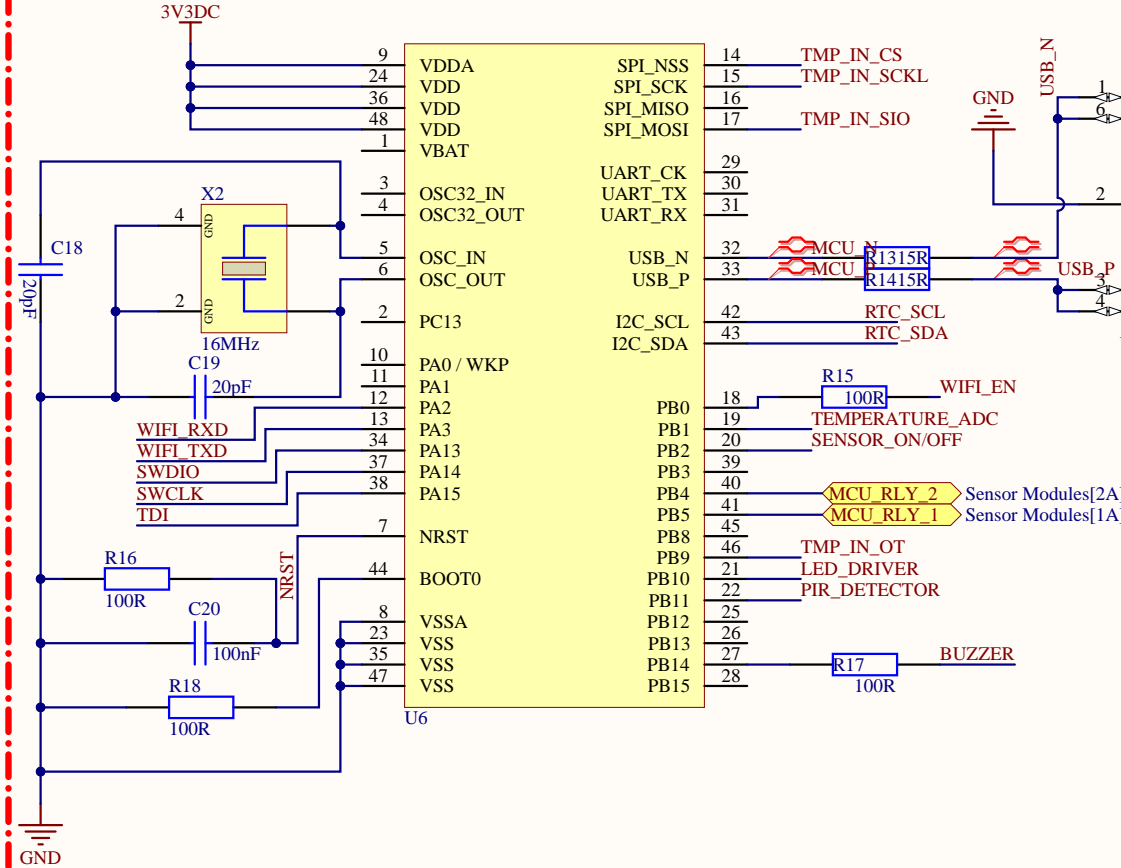
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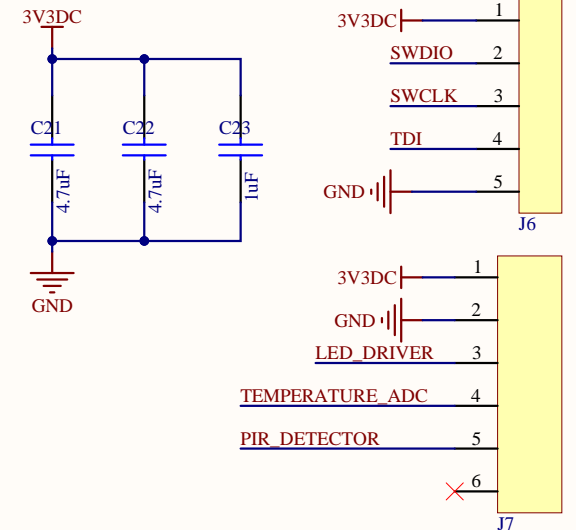
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Date:	6-30-2023	Sheet of
File:	C:\Users\...\Block Diagram.SchDoc	Drawn By:



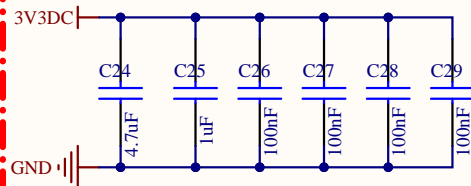
MICROCONTROLLER



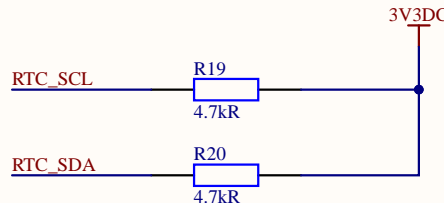
CONNECTORS



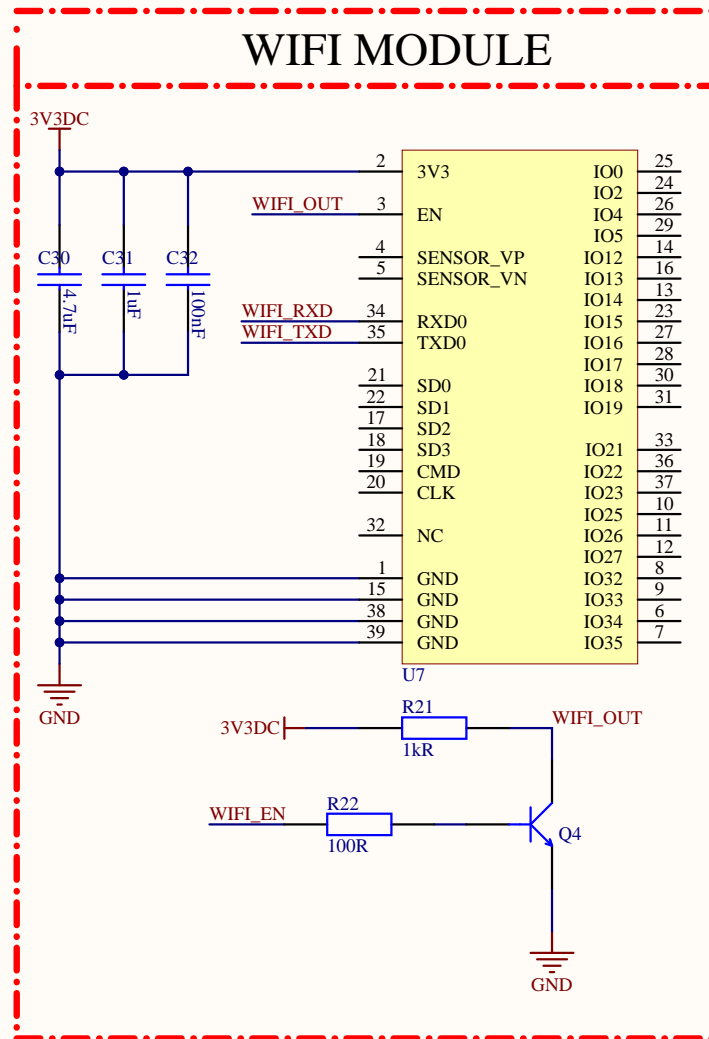
DECOUPLING CAPACITORS



PULL-UP & PULL-DOWN RES

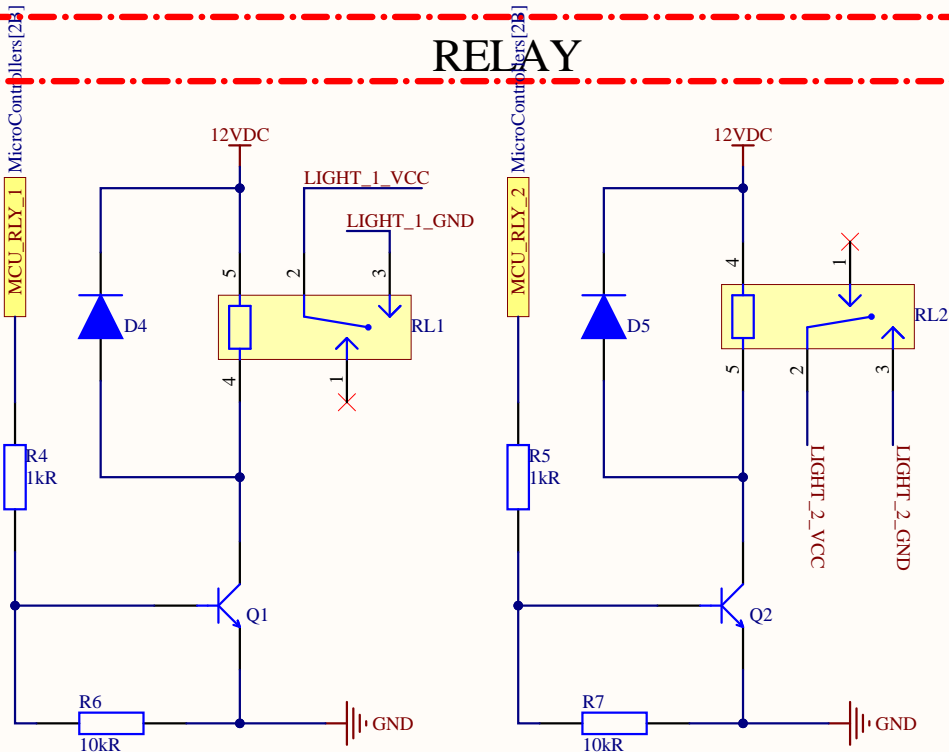


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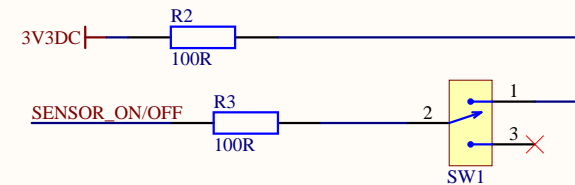


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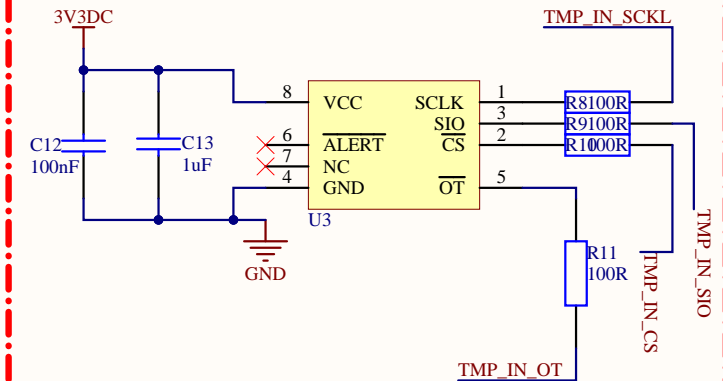
RELAY



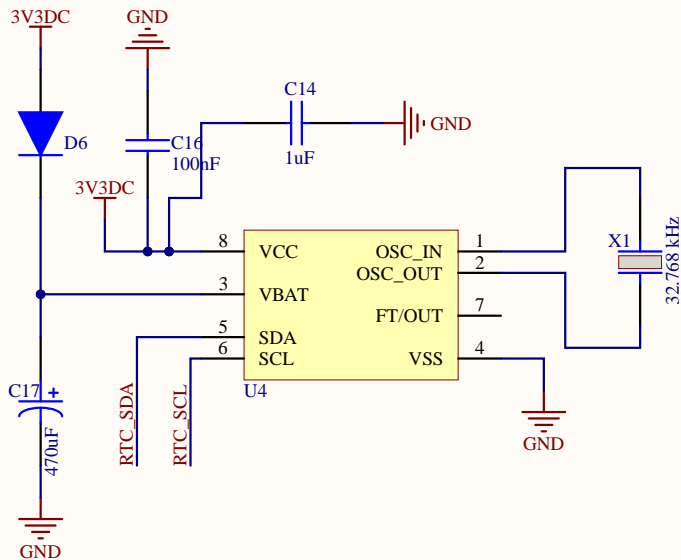
SENSOR ON/OFF



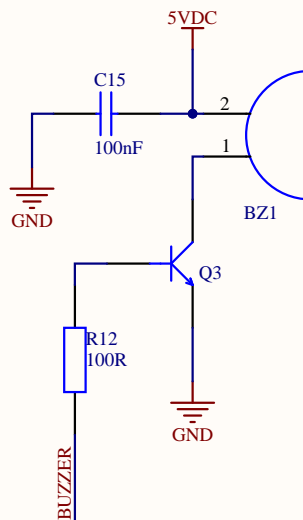
TEMPERATURE SENSOR



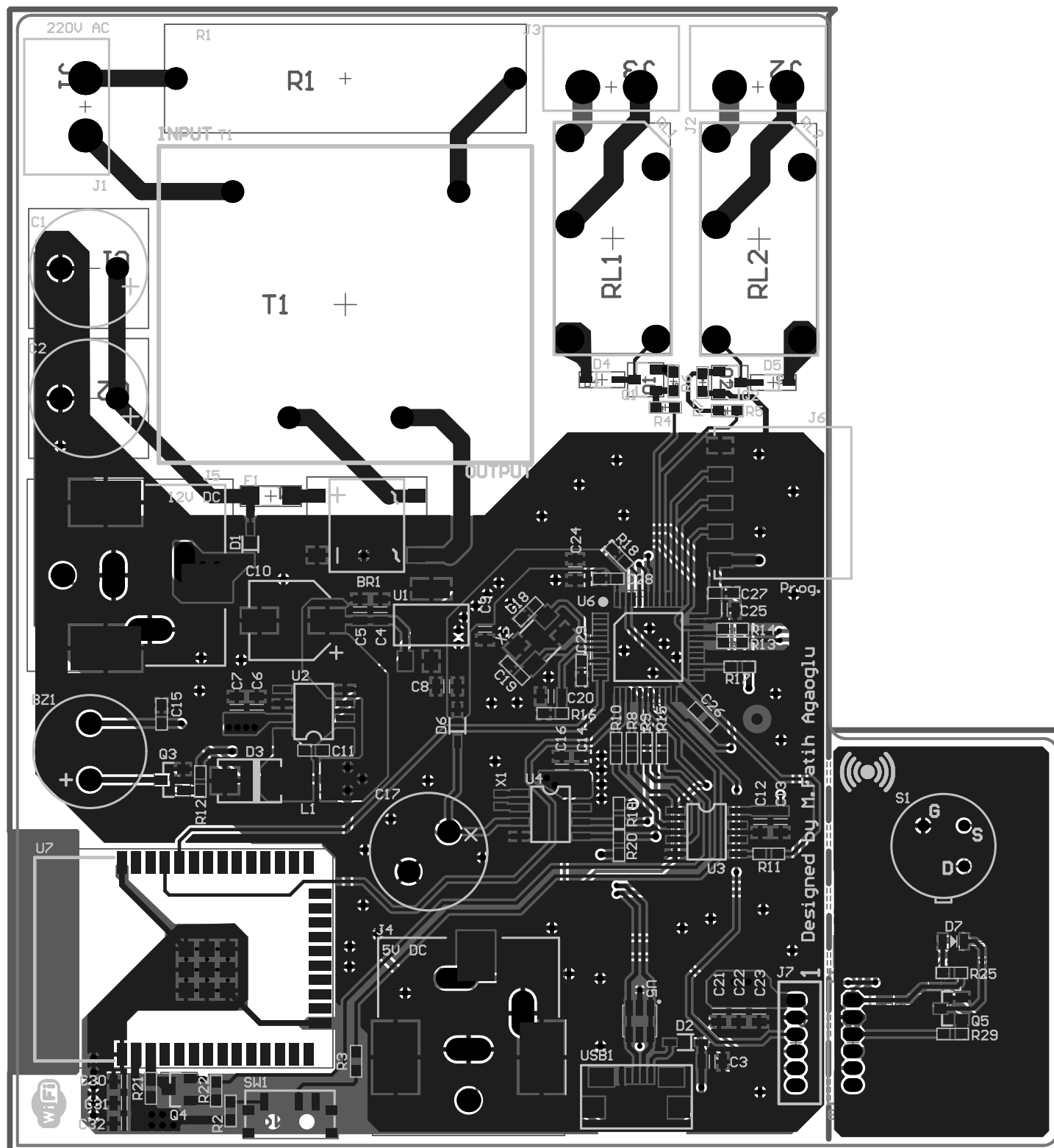
RTC



BUZZER



Title		
Size	Number	Revision
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Date:	6-30-2023	Sheet of
File:	C:\Users\...\Sensor Modules.SchDoc	Drawn By:



Designator	Manufacturer	Manufacturer Part Number	Description	Comment	Quantity
R2, R3, R8, R9, R10, R11, R12, R15, R16, R17, R18, R22, R25	Yageo	RC0603JR-07100RL	RES 100 1% OHM 0603 SMD	RC0603JR-07100RL	13
C4, C6, C9, C13, C14, C23, C25, C31, C38, C45, C47	Samsung	CL21B105KBFNNNE	CAP CER 1uF 1% 10 8805	CL21B105KBFNNNE	11
R4, R5, R6, R7, R21, R24, R28, R29, R32, R35, R37	Yageo	RC0603JR-0710KL	RES 1K 1% OHM 0603 SMD, RES 10K 1% OHM 0603 SMD	RC0603JR-0710KL	11
C3, C8, C21, C22, C24, C30, C43, C44, C46	Samsung	CL21A475KACNNNE	CAP CER 4.7uF 1% 10 8805	CL21A475KACNNNE	9
C15, C26, C27, C28, C29, C36, C37, C40, C41	KEMET	C2603C104K5RACU	CAP CER 100nF 1% 10 8603 SMD	C2603C104K5RACU	9
C5, C7, C12, C16, C20, C32, C42	Samsung	CL21B104KBCNNNC	CAP CER 100nF 1% 10 8805	CL21B104KBCNNNC	7
D1, D2, D4, D5, D6	ON Semiconductor / Fairchild	1N4148WS	Diode, Single, 75 V, 150 mA, 1 V, 4 ns	1N4148WS	5
D1, D2, D3, D4, D5	Diodes Zetex	MMBT3904-7-F	Transistor General Purpose BJT NPN 40 Volt 0.2A Automotive 3 Pin SOT 23	MMBT3904-7-F	5
C1, C2, C17	KEMET	ES4477M050AH4AA	CAP ALU ELEC 470uF 20V 800AL	ES4477M050AH4AA	3
C11, C33, C35	Walsin Technologies	0603B103K160CT	CAP CER 10nF 1% 10 8603	0603B103K160CT	3
J1, J2, J3	CUI	TBP01R1-50B-02BE	Conn Shielded Header HDR 2 POS 5.08mm Solder BA Side-Entry Thru-Hole B99	TBP01R1-50B-02BE	3
R26, R34, R36	Yageo	RC0603JR-07220KL	RES 220R 1% OHM 0603 SMD	RC0603JR-07220KL	3
C18, C19	Samsung	CL10C200BBNNNC	CAP CER 20pF 1% 10 8603 SMD	CL10C200BBNNNC	2
C34, C39	TDK	C3216X5R1E336M160AC	CAP CER 3.3uF 100 1206 SMD	C3216X5R1E336M160AC	2
J4, J5	CUI	P9-037AH-SMT-TR	DC Power Connector Power Jacks	P9-037AH-SMT-TR	2
J7, J8	Würth Electronics	64800611622	1.5mm eHR Connector	64800611622	2
R13, R14	Yageo	RC0603JR-0715RL	RES 15 1% OHM 0603 SMD	RC0603JR-0715RL	2
R19, R20	Yageo	RC0603JR-074K7L	RES 4K7 1% OHM 0603 SMD	RC0603JR-074K7L	2
R23, R27	Yageo	RC0603JR-07560KL	RES SMD 560K OHM 5% 1/10W 0603	RC0603JR-07560KL	2
R30, R31	Yageo	RC0603JR-0708L	RES 0 1% OHM 0603 SMD	RC0603JR-0708L	2
RL1, RL2	Panasonic	ALQ112	General Purpose Relay SPDT (1 Form C) 12VDC Coil Through Hole	ALQ112	2
BR1	Sangfast Microelectronics	DB105STR	Bridge Diode AC-DC	DB105STR	1
BZ1	CUI Devices	CM-9605C-0580T	Buzzers Indicator, Internally Driven Magnetic 5V 30mA 2.7kHz 80dB @ 5V, 10cm Through Hole 25 Pins	CM-9605C-0580T	1
C10	KEMET	EEV68M035ARHAA	Cap Aluminum Lytic 68uF 35V 20% (6.3 X 7.7mm) SMD 280mA 2000m 10SC 1/R	EEV68M035ARHAA	1
D3	ON Semiconductor	1SMB5918BT3G	Diode Zener Single 5.6V 5% 3W 2-Pin SMB T/R	1SMB5918BT3G	1
D7	Osram Opto	UH R974-EP-1	LED Uni-Color Hyper Red 660nm 2-Pin Chip 9805(2012Metric) T/R	UH R974-EP-1	1
D8	Vishay Lite-On	1TST-C171GKT	Green 0805 130 * Min 5 mcd Typical 12 mcd Water Clear Lens SMD LED	1TST-C171GKT	1
F1	Schurter	3413.0216.22	FUSE BRD MNT 1A 32VAC 5VDC 1206 100 C.L.	3413.0216.22	1
J6	Samtec	SMH-105-02-L-5	HORIZONTAL SMT SOCKET	SMH-105-02-L-5	1
L1	Würth Electronics	78438335470	FIXED IND 47uH 390MA 2.3 OHM SMD	78438335470	1
R1	NTE Electronics	5W027	Resistor 5 Watt Cermet Wirewound Flameproof 27 Ohm 5% Axial Lead	5W027	1
R33	Yageo	RC0603JR-0743KL	RES 43K 1% OHM 0603 SMD	RC0603JR-0743KL	1
RT1	Vishay Dale	TFPT1206L1002FM	Thermistor PTC 10K Ohm 1% 1206	TFPT1206L1002FM	1
S1			SENSOR PIRMO DETECTOR DUAL MOTION	J48 878/3902	1
SW1	E-Switch	EG12155AA	SPST Switch, SPDT, 0.025A, 24V, SMD	EG12155AA	1
T1	Zettler Magnetics	BV302512010-ZU	220-12 Transformer 1VA	BV302512010-ZU	1
U1	Diodes	AP7361-33E-13	LDO Regulator Pos 3.3V 1A 4-Pin(G-Tad) SOT-23(1/6)	AP7361-33E-13	1
U2	TI National Semiconductor	LM2675MX-12/NOPB	Switching Voltage Regulator Pos Chvt Jui Eff 1A 5D Vtg Reg	LM2675MX-12/NOPB	1
U3	Maxim	MAX662MSA+	SENSOR TEMPERATURE SPI 80C	MAX662	1
U4	STMicroelectronics	M41T00M6F	IC RTC DAU-CALENDAR (2C-B) SDC	M41T00M6F	1
U5	STMicroelectronics	USBLC6-25C6	TVS DIODE 5.25V 17V 60723-6	USBLC6-25C6	1
U6	STMicroelectronics	STM32F103C8T6A	MCU 32-Bit STM32F ARM Cortex M3 RISC 32MB Flash 2.5V/3.3V 48-Pin LQFP Tray	STM32F103C8T6A	1
U7	Espressif Systems	ESP32-WROOM-32	SMD MODULE (ESP32) D0W0C6 32MBIT PR Controller Low Noise Amplifiers and LDO Regulator 14-Pin SDC N T/R	ESP32-WROOM-32	1
U8	ON Semiconductor	NCS36000DRG	PR Controller Low Noise Amplifiers and LDO Regulator 14-Pin SDC N T/R	NCS36000DRG	1
U9	Texas Instruments	OPA314AIDBVR	Op Amp OPA314	OPA314AIDBVR	1
USB1	Amphenol FC	10118192-0001LF	CONN RCP USB2.0 MICRO B 50MS K/A	10118192-0001LF	1
R1	Abrakon	AB505-32-768KH2-T	Crystal 32.768 kHz, SMD, 1.6mm x 1mm, 12.5 pF, 20 ppm, AB505 Series	AB505-32-768KH2-T	1
X2	ECS International	ECS-160-20-30B-TR	CRYSTAL 16.0000MHz 20PF SMD	ECS-160-20-30B-TR	1