

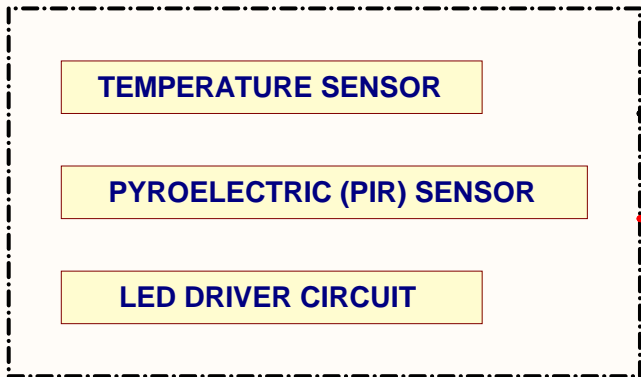
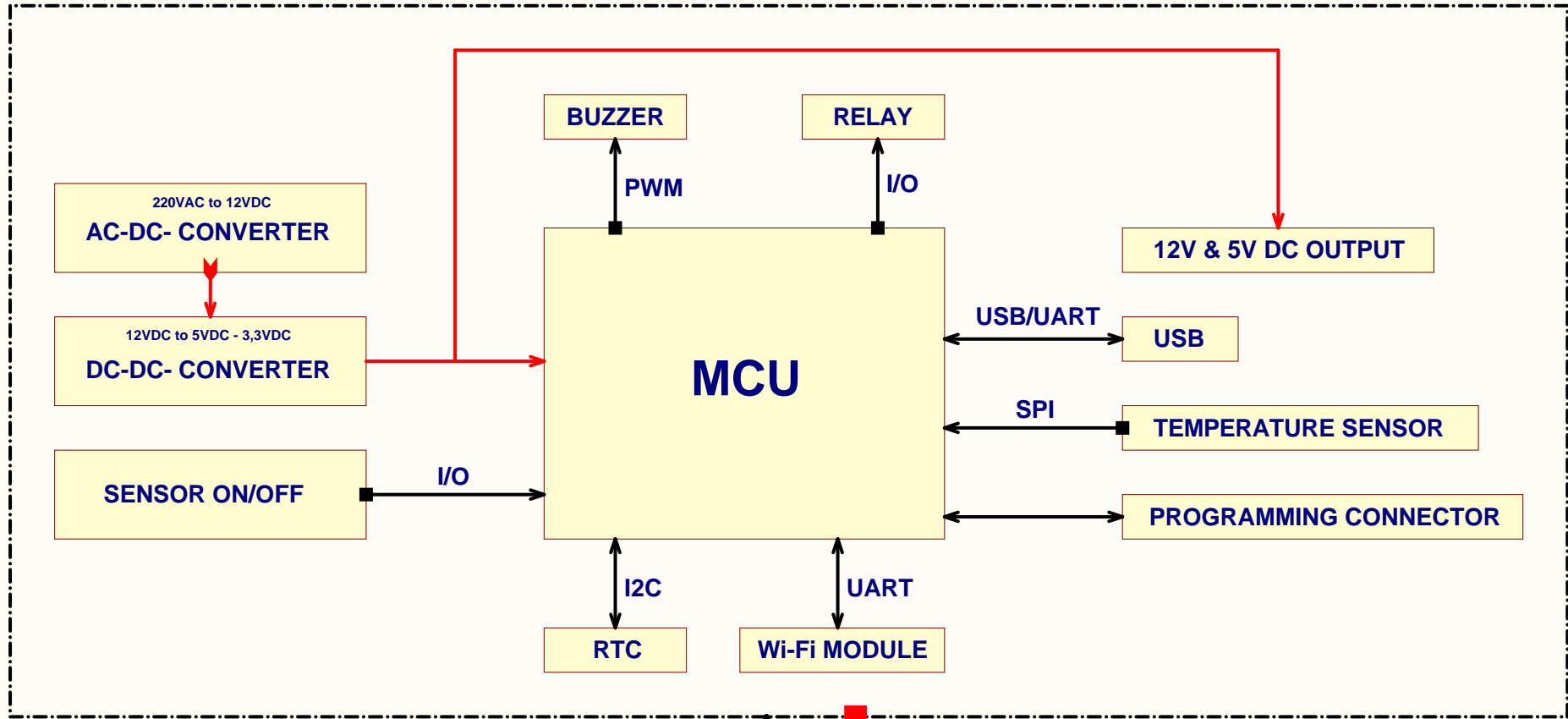
İÇİNDEKİLER / CONTEXT	
Sayfa No Page No	Açıklama / Description
1	Cover
2	Block Diagram
3	Power Management
4	Microcontroller
5	Sensor Board

REVİZYON / REVISION		
Sayfa No Page No	Tarih Date	Açıklama / Description
1~5	06/07/2022	İlk Kart

ÜRETİM NOTLARI / PRODUCTION NOTES	
	Açıklama / Description
Kart Özellikleri Board Features	
Üretim Çıktıları Gerber Files	
Ekler Attachments	

İLETİŞİM / CONTACT

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+90 545 313 04 40

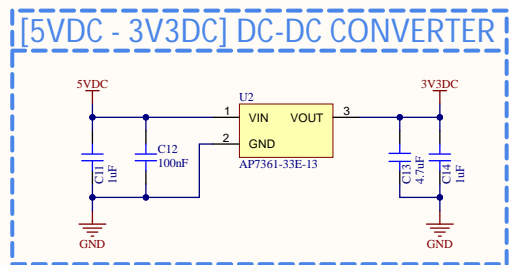
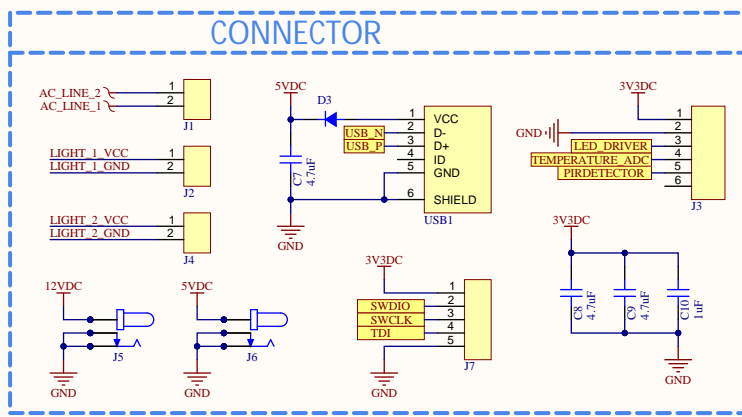
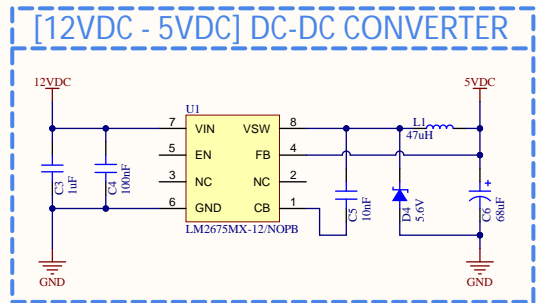
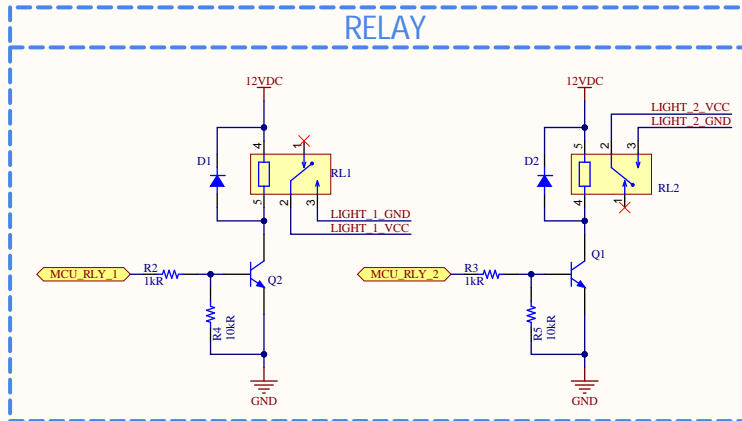
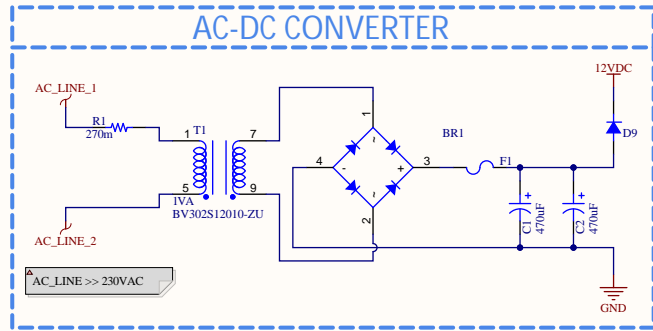


HABERLEŞME PROTOKOLLERİ
 SENKRON - ASENKRON
 UART
 USART
 I2C
 SPI

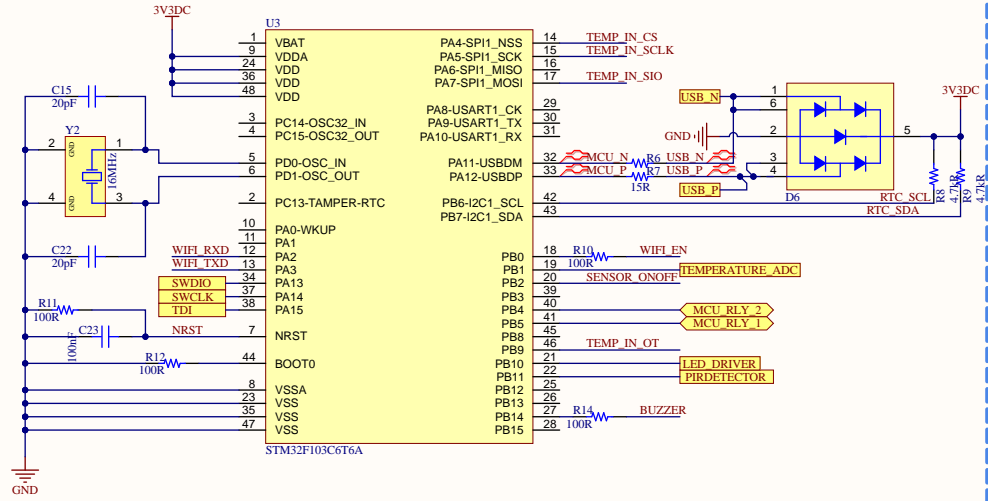
KOMPONENT TEDARİK SİTELERİ
 DIGIKEY
 Mouser
 FARNELL
 RS COMPONENT
 LCSC
 3D BODY
 3D CONTENTCENTRAL
 GRABCAD
 SNAPEDA

KOMPONENTLER:
 RTC: M41T70
 WIFI MODULE: ESP32-WROOM-32E-N4
 PYRO SENSOR: LHI 878/3902
 TEMPERATURE OUTSIDE: TFPT1206L1002FM
 TEMPERATURE INSIDE: MAX662MSA+
 MCU: STM32F103C6T6A
 RELAY: ALQ112
 BUZZER: CMI-960SIC-0580T
 SENSOR ON/OFF: EG1215AA
 AC-DC CONVERTER:
 Trafo: BV302S12010-ZU
 Bridge Rectifier: DB105S
 DC-DC CONVERTER:
 5VDC: LM2675MX-12/NOPB
 3V3DC: AP7361-33E-13
 LED DRIVE MOSFET: SSM3K357R,LF
 Resistors: RC0603FR-0710K7L
 Capacitors: C0603C104K4RACTU
 ALA7DA471CF450
 PCR1E471MCL1GS

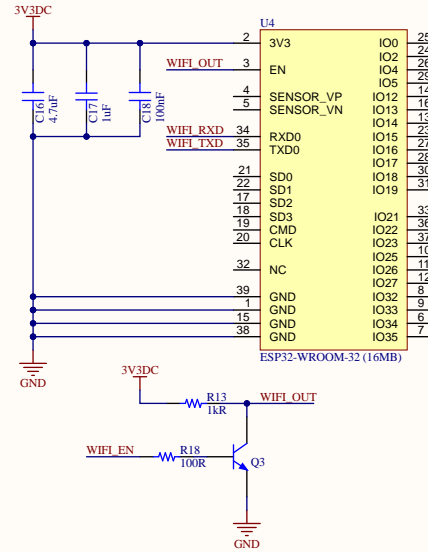




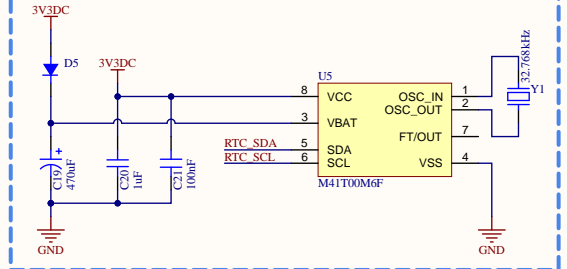
MICROCONTROLLER



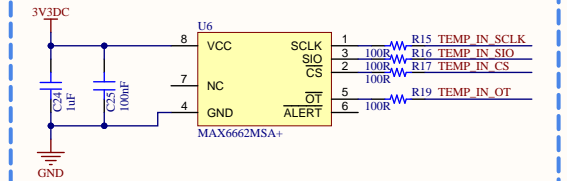
RTC



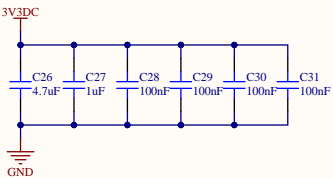
RTC



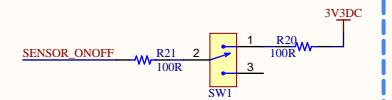
TEMPERATURE SENSOR



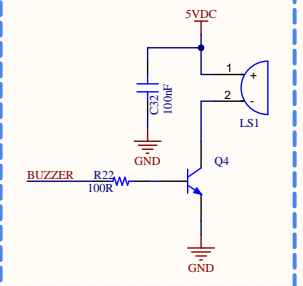
DECOUPLING CAPACITORS

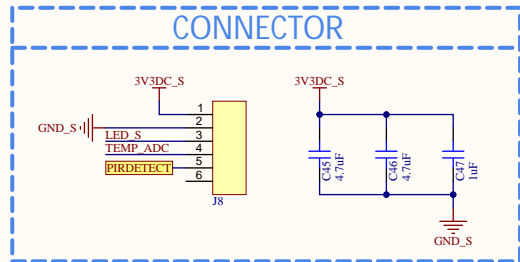
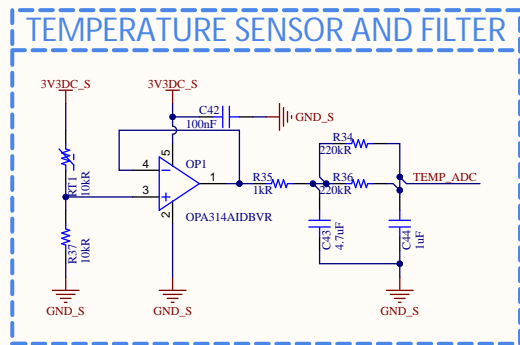
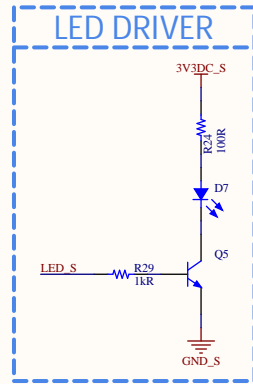
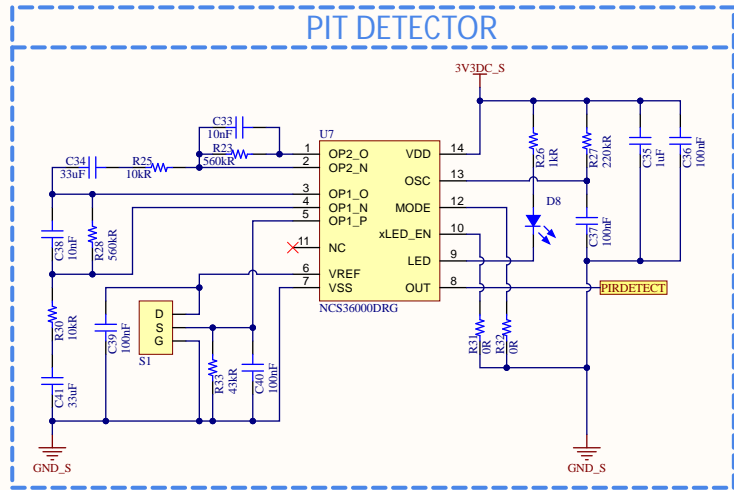


SENSOR ON/OFF

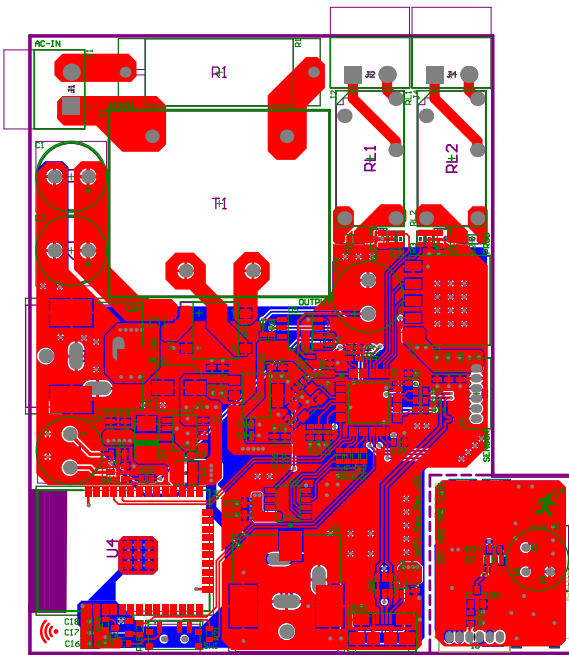


BUZZER





TITLE: Sensor_Board.SchDoc	
PROJECT: Wireless_Security_Detector.PrjPcb	
Size: A3	Date: 07/07/2022
Drawn By: Süleyman ARIKAYA	Rev: AA
Sheet: 5 of 5	



Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	SM-001	1.00mil	4	
	Top Surface Finish	PbSn	0.79mil		
1	Top Layer	CF-004	1.38mil		
	Dielectric 1	PP-017	5.10mil	4.3	
	Dielectric 2	PP-017	5.10mil	4.3	
2	GND	CF-004	1.38mil		
	Dielectric 3	Core-039	28.00mil	4.8	
3	PWR	CF-004	1.38mil		
	Dielectric 4	PP-017	5.10mil	4.3	
	Dielectric 5	PP-017	5.10mil	4.3	
4	Bottom Layer	CF-004	1.38mil		
	Bottom Surface Finish	PbSn	0.79mil		
	Bottom Solder	SM-001	1.00mil	4	
	Bottom Overlay				

