

# NuMicro<sup>®</sup> MCU MikroDenetleyici Eđitimi

BORDOZA M032KG

Development Board

eviren ve Anlatan: Do. Dr. Barıř GKE

Ocak 2025

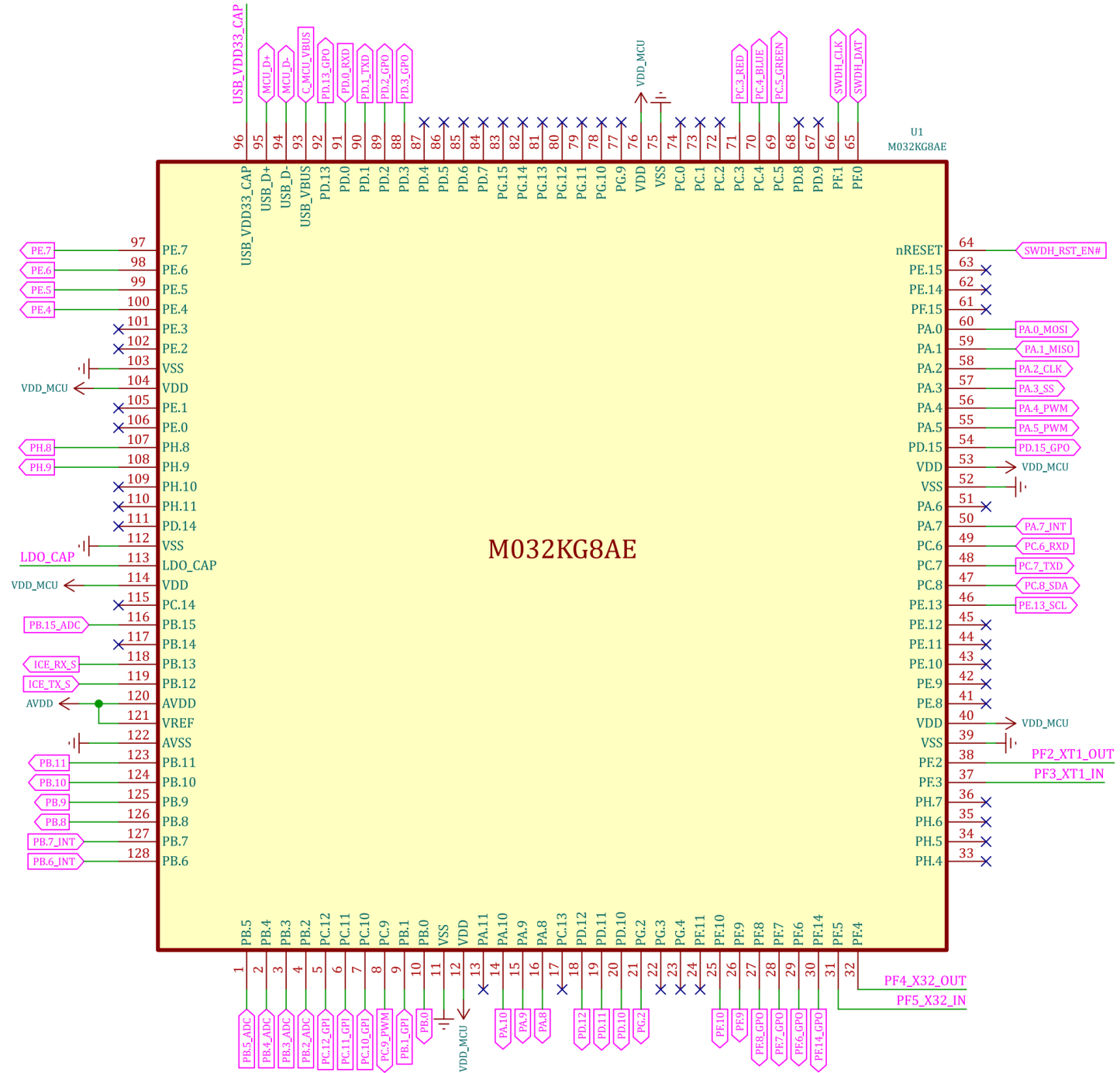
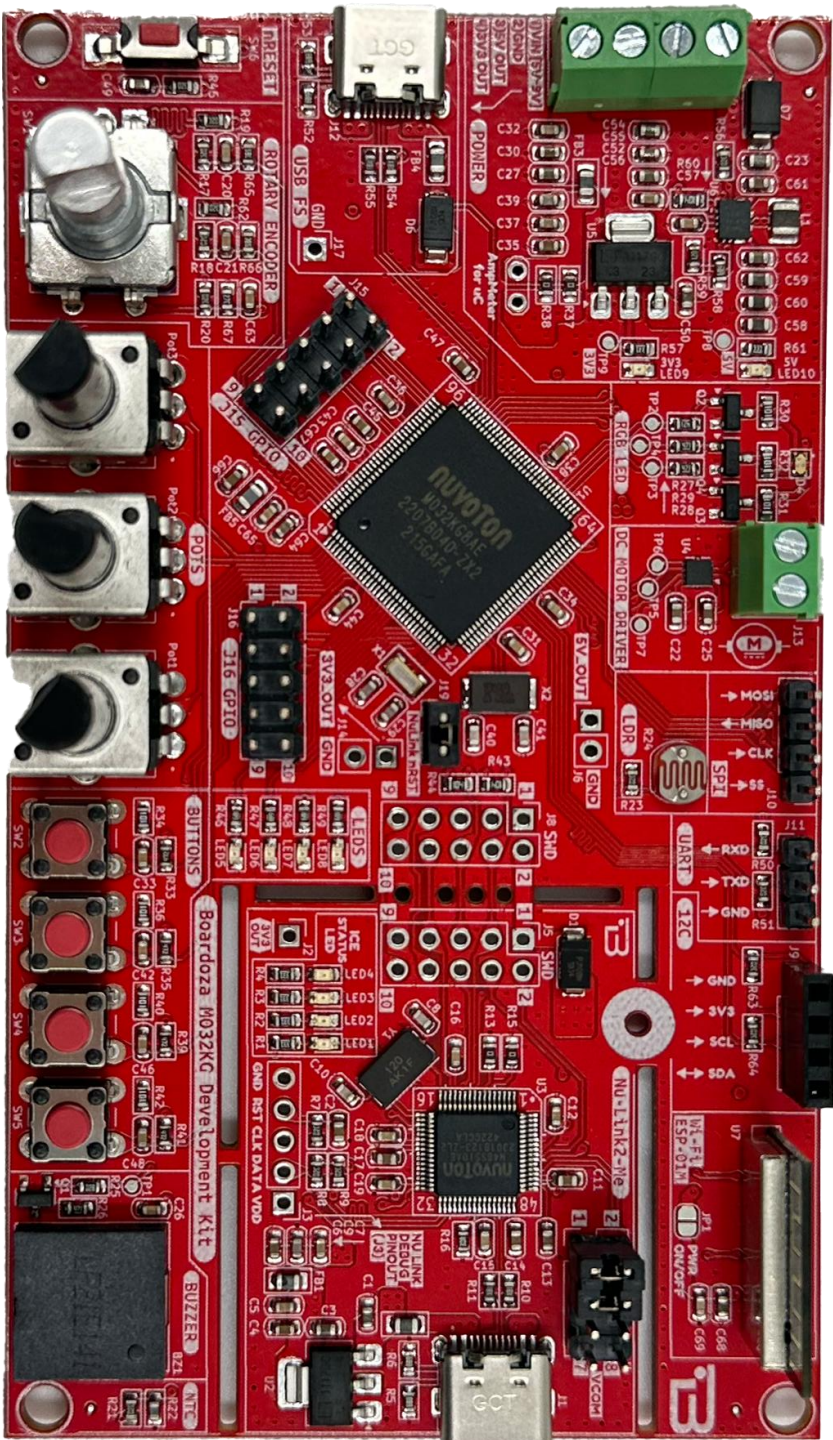
**Not:** Bu dokman'ın telif hakkı tamamen Bordoza ve zdisan firmasına aittir.



BORDOZA M032KG

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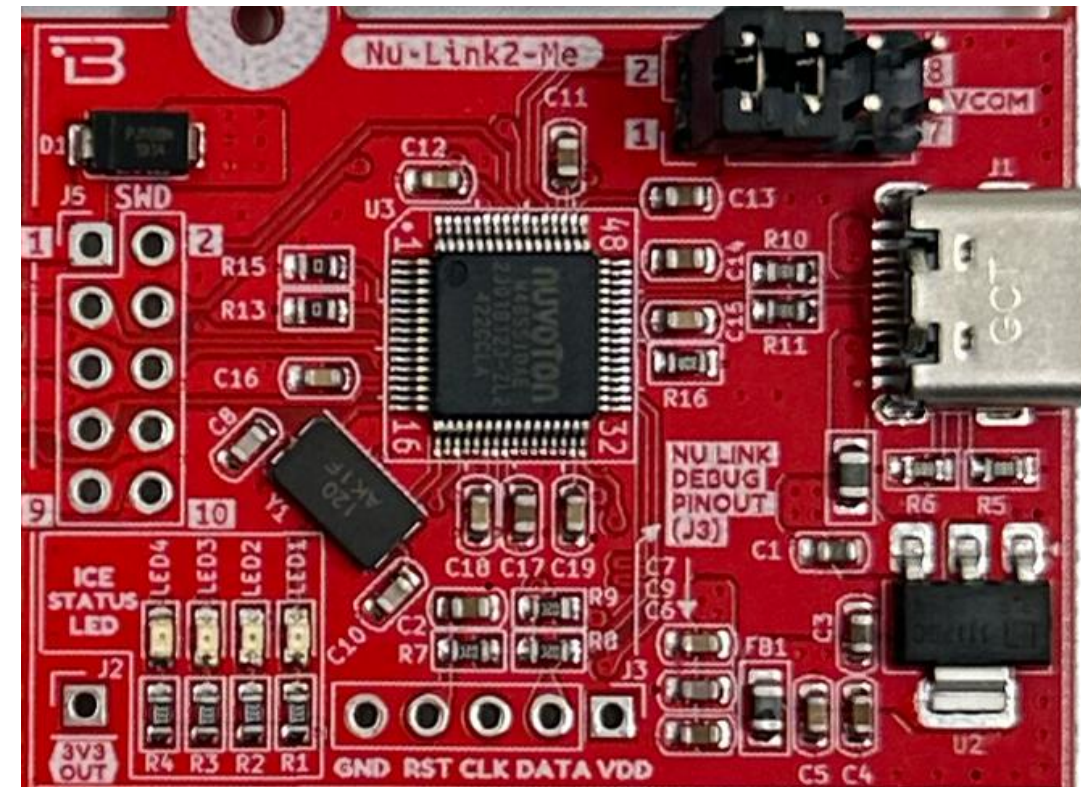
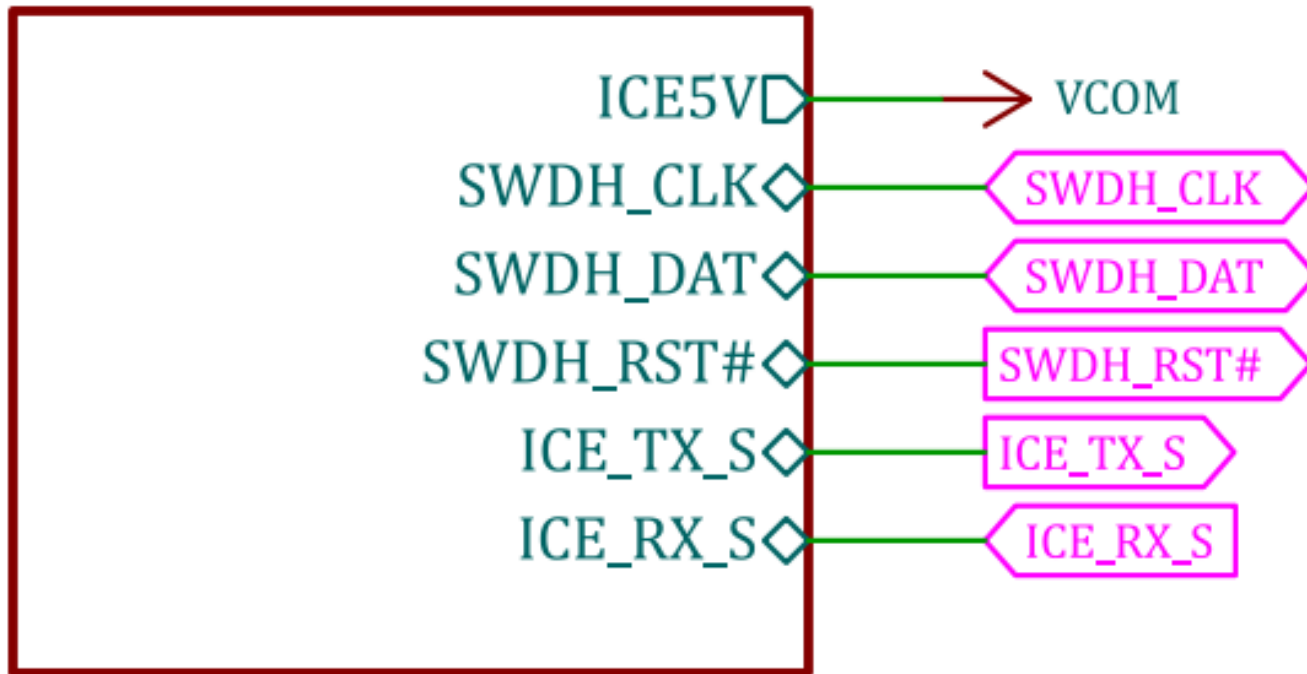
<https://github.com/brgokce/NUVOTON-M032KG>





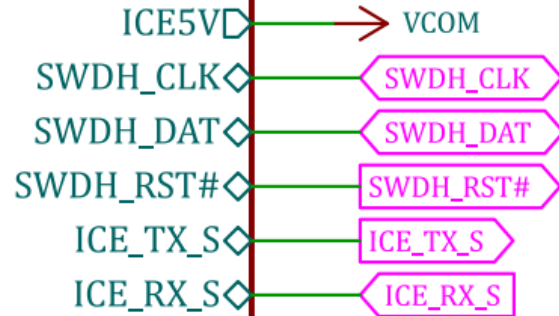
# NuLink Debugger

## M48SSIDAE\_Debugger



# Temel Bileşenler ve Giriş / Çıkışlar

M48SSIDAE\_Debugger



Ntc



Ldr



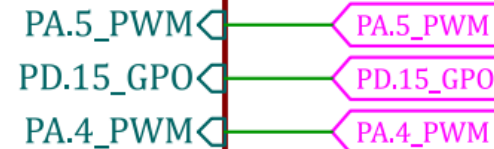
Buzzer



McuUsbC



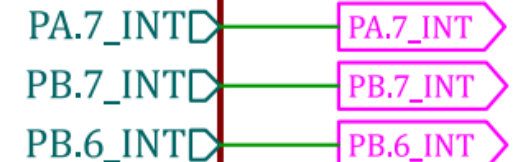
DcMotorDriver



RgbLed









RotaryEncoder\_Switch



























# Temel Bileşenler ve Giriş/Çıkışlar









Pots

PB.3\_ADC  PB.3\_ADC   
PB.4\_ADC  PB.4\_ADC   
PB.5\_ADC  PB.5\_ADC 

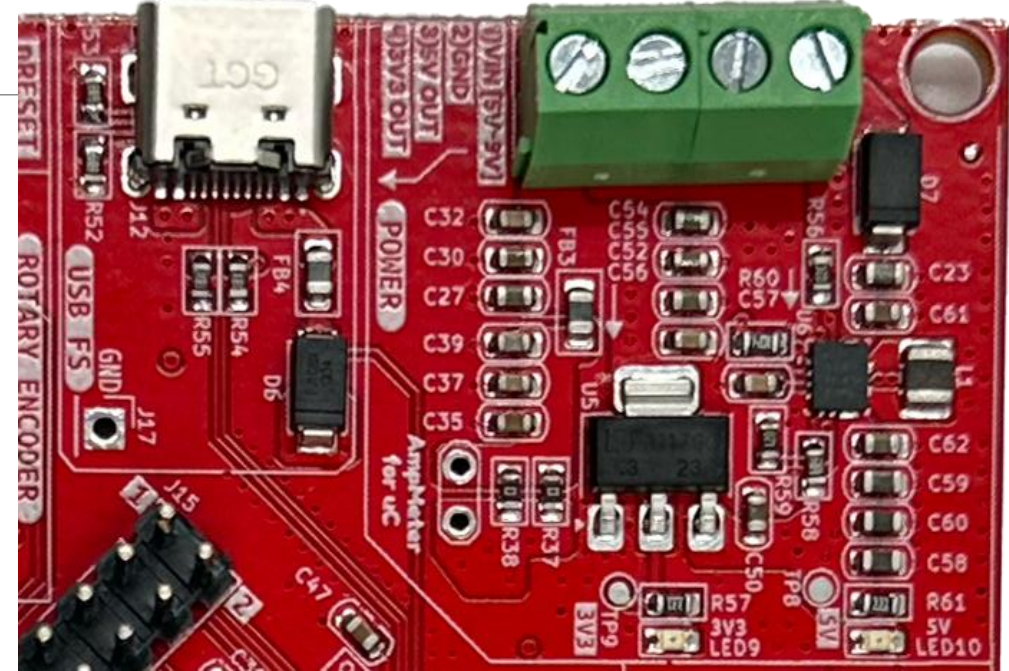
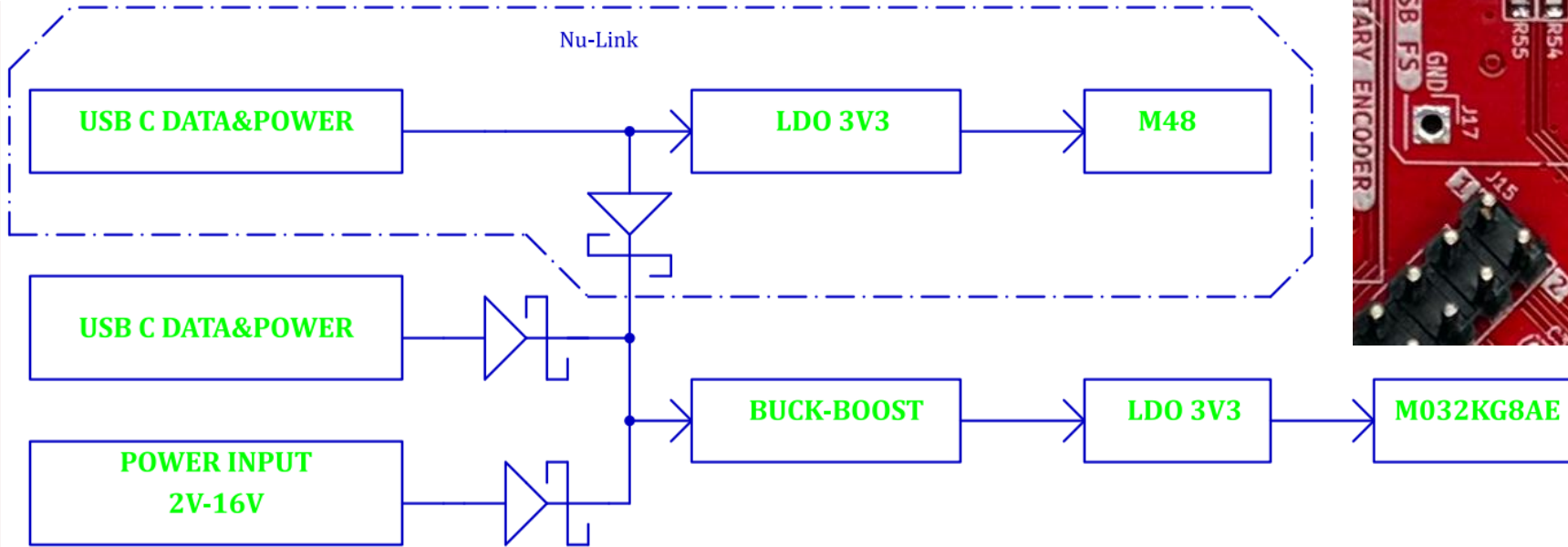
ESP-01M

PD.0\_RXD  PD.0\_RXD   
PD.1\_TXD  PD.1\_TXD   
PD.2\_GPO  PD.2\_GPO   
PD.3\_GPO  PD.3\_GPO   
PD.13\_GPO  PD.13\_GPO 

PA.3\_SS  PA.3\_SS  
PA.1\_MISO  PA.1\_MISO  
PA.0\_MOSI  PA.0\_MOSI  
PA.2\_CLK  PA.2\_CLK  
  
PC.8\_SDA  PC.8\_SDA  
PE.13\_SCL  PE.13\_SCL  
  
PC.6\_RXD  PC.6\_RXD  
PC.7\_TXD  PC.7\_TXD  
SWDH\_RST\_EN#  SWDH\_RST\_EN#  
ICE\_RX\_S  ICE\_RX\_S  
ICE\_TX\_S  ICE\_TX\_S  
SWDH\_RST#  SWDH\_RST#  
SWDH\_CLK  SWDH\_CLK  
SWDH\_DAT  SWDH\_DAT

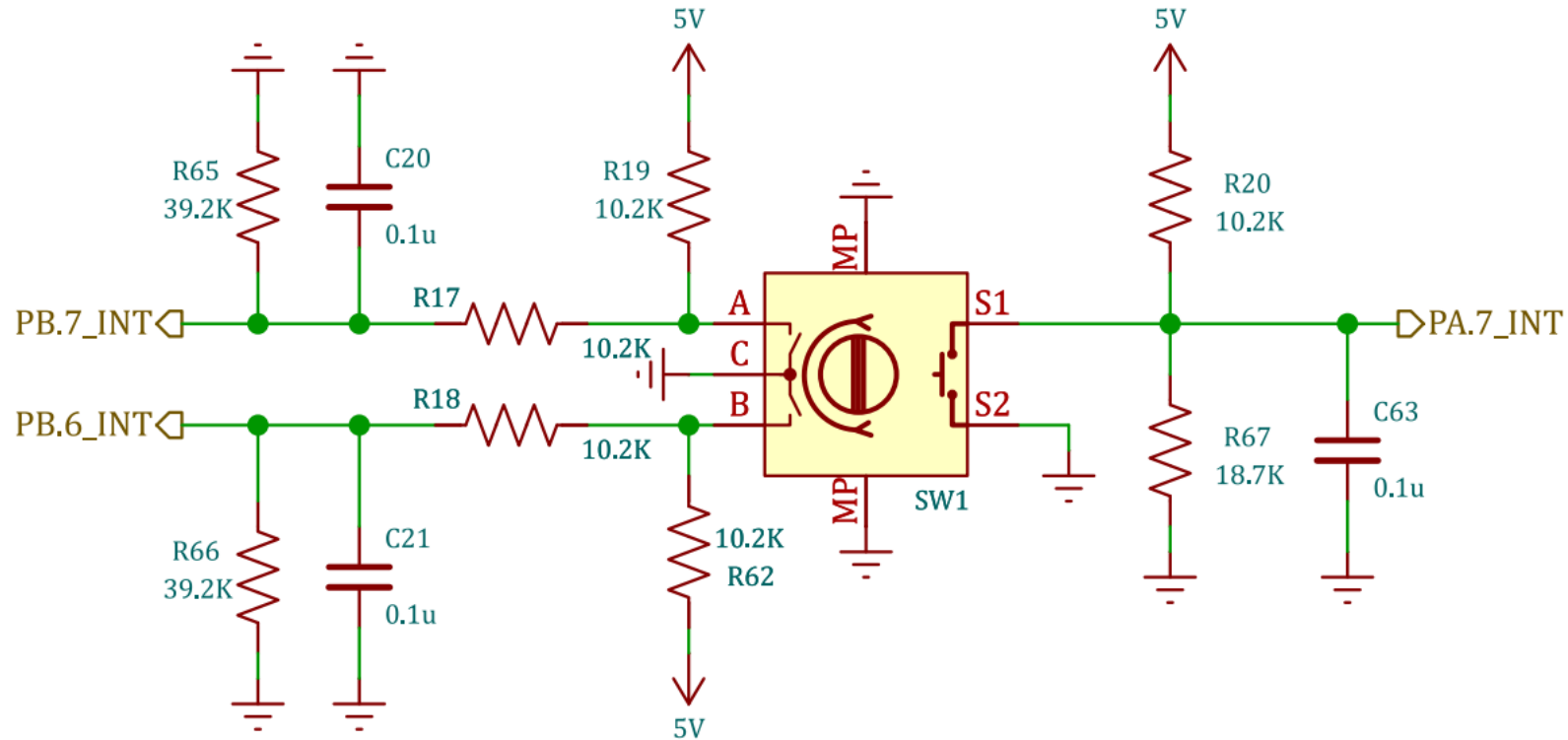
PF.8\_GPO  PF.8\_GPO  
PF.7\_GPO  PF.7\_GPO  
PF.6\_GPO  PF.6\_GPO  
PF.14\_GPO  PF.14\_GPO  
  
PC.12\_GPI  PC.12\_GPI  
PC.11\_GPI  PC.11\_GPI  
PC.10\_GPI  PC.10\_GPI  
PB.1\_GPI  PB.1\_GPI

# Güç Dağıtımı

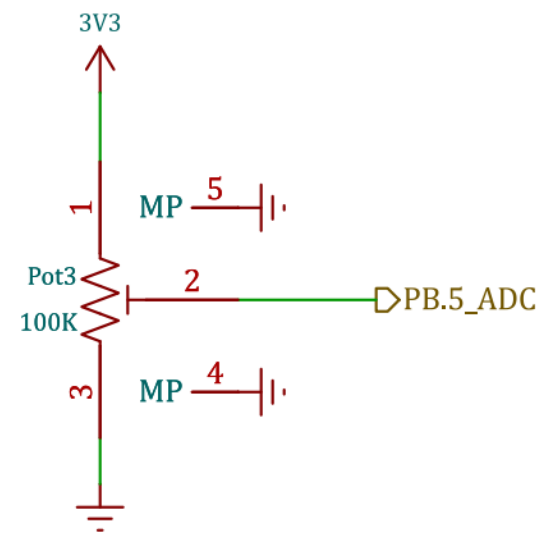
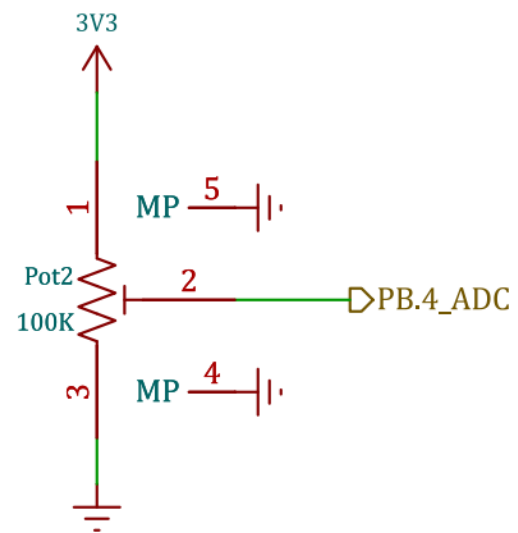
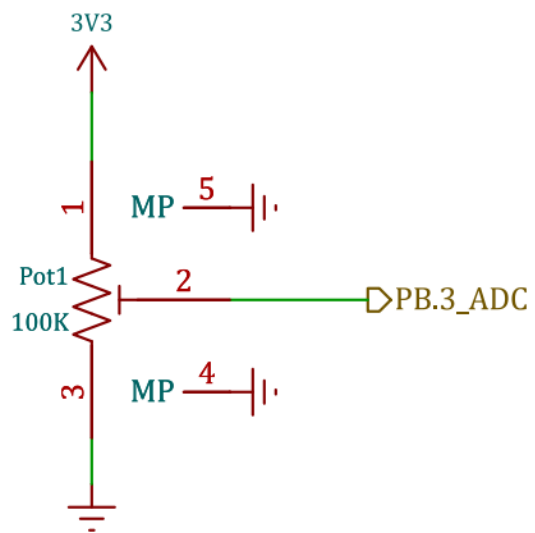




# Rotary Encoder Switch

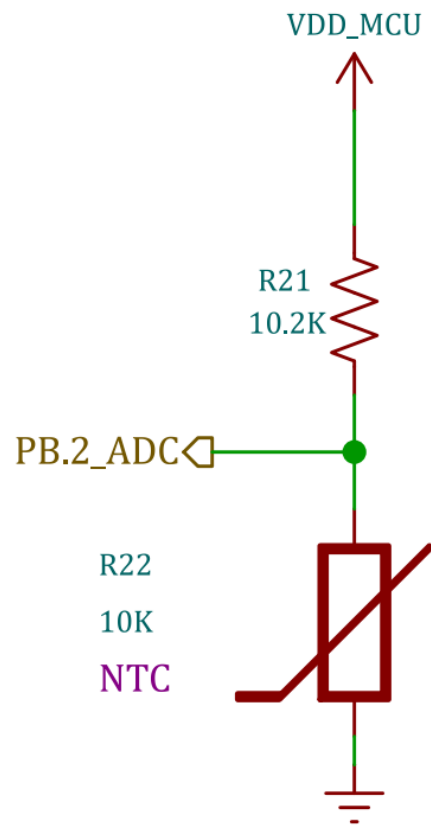


# POTS

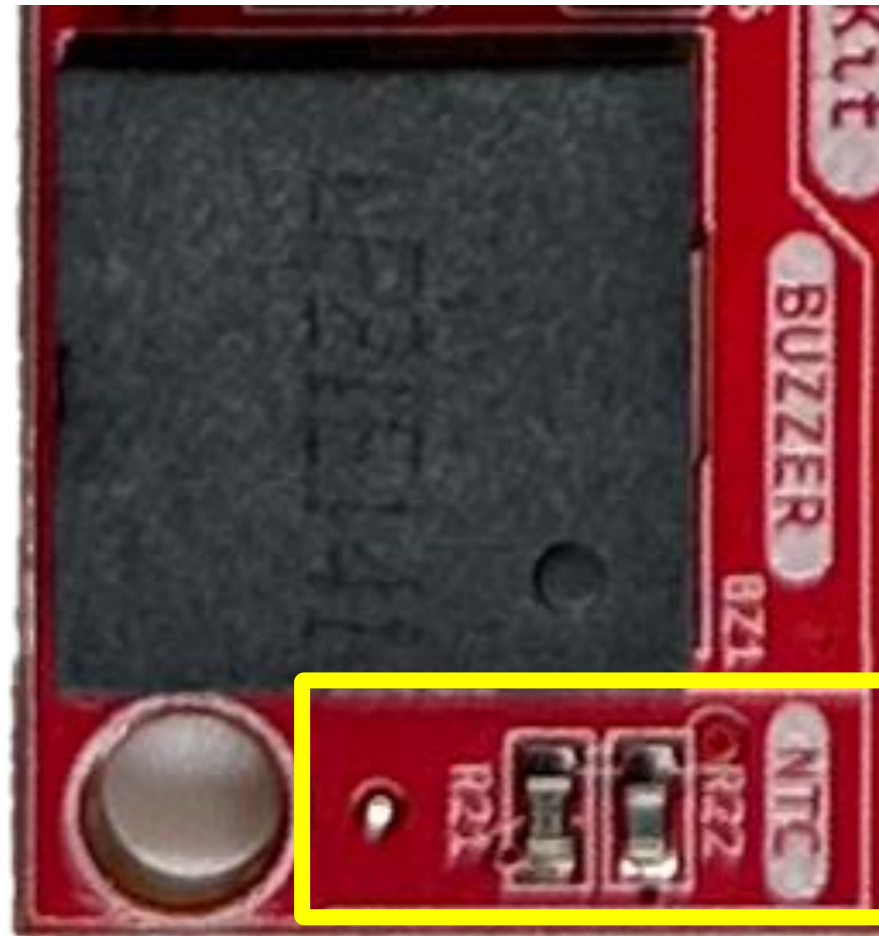




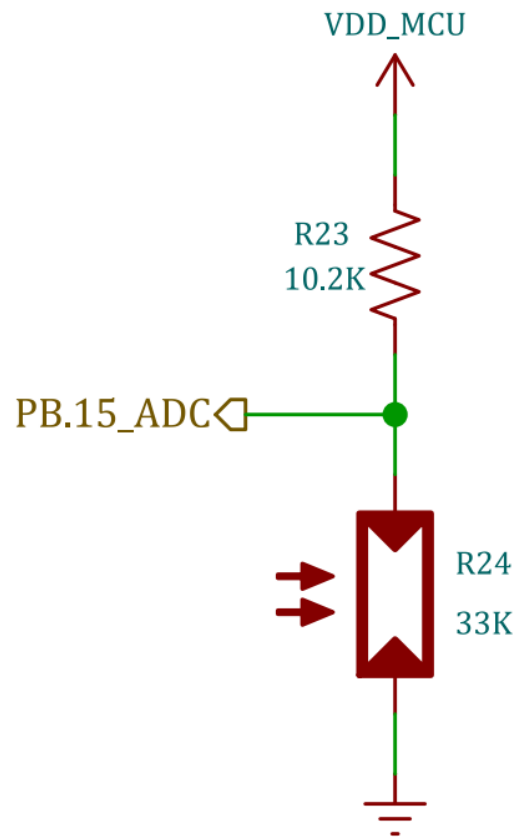
# NTC



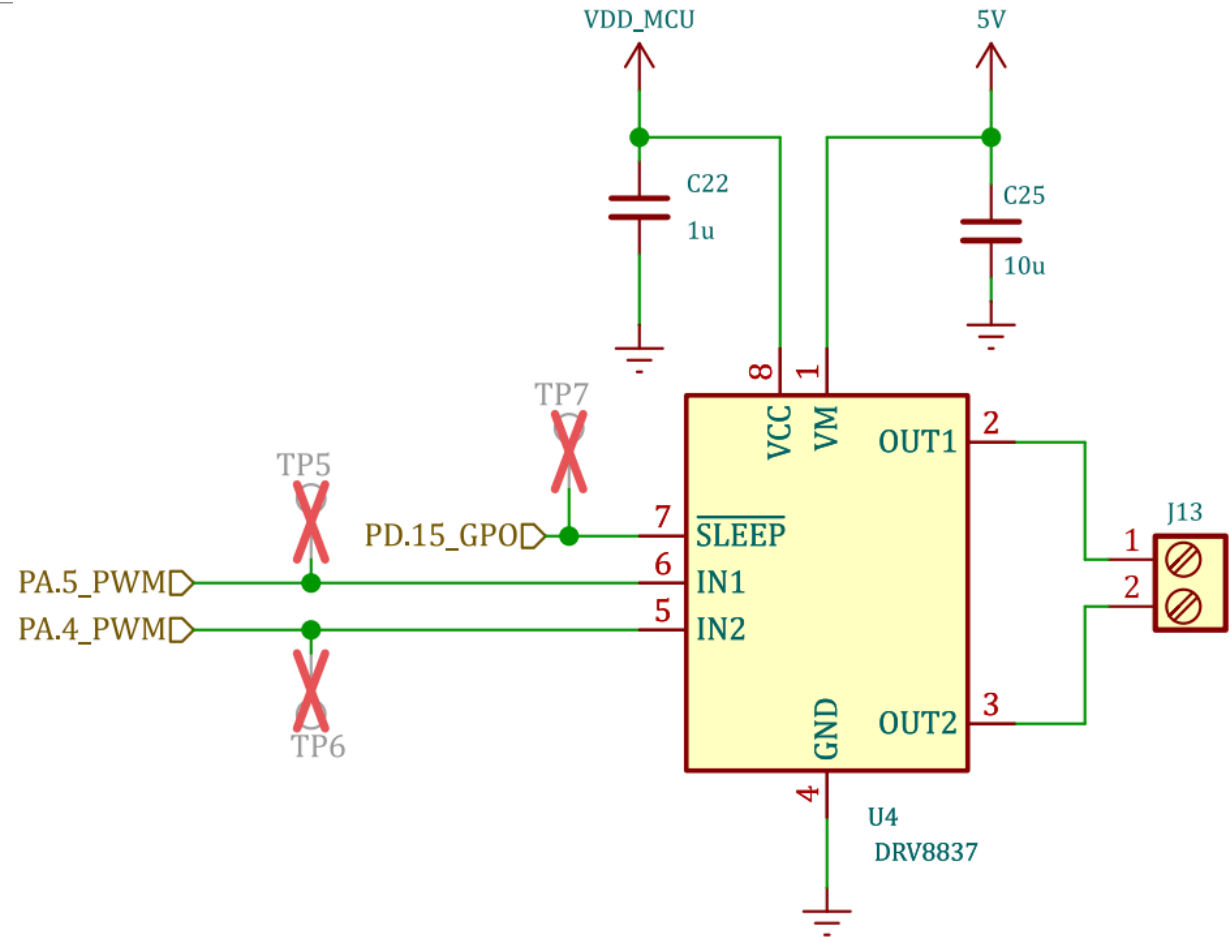
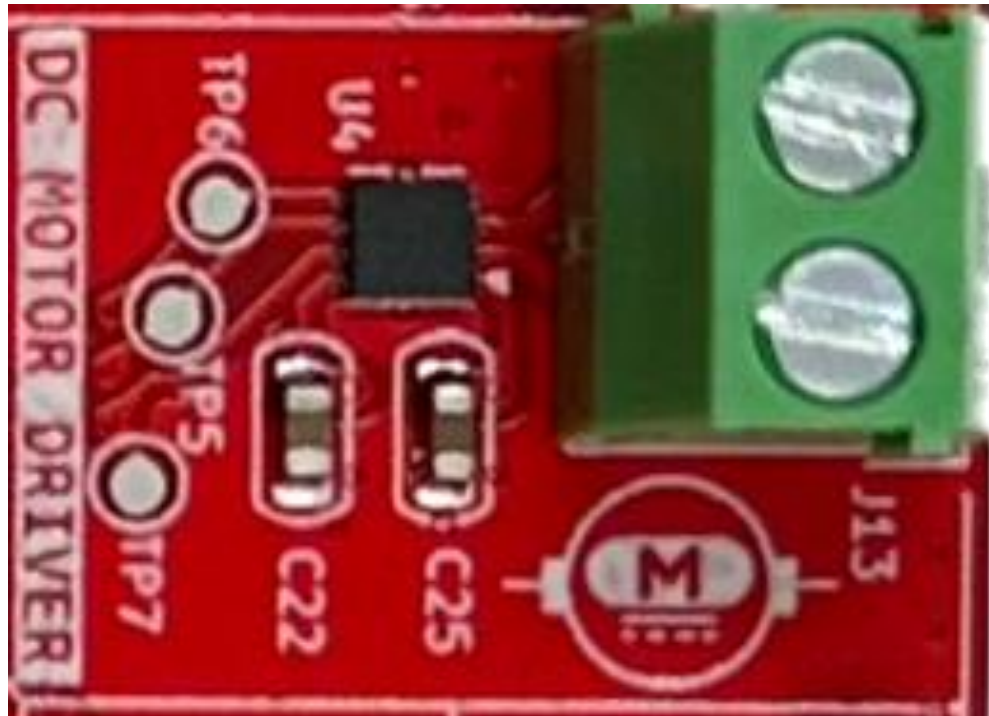
NTC 0603 10 KoHm +/-3% Pmax 210W



# LDR

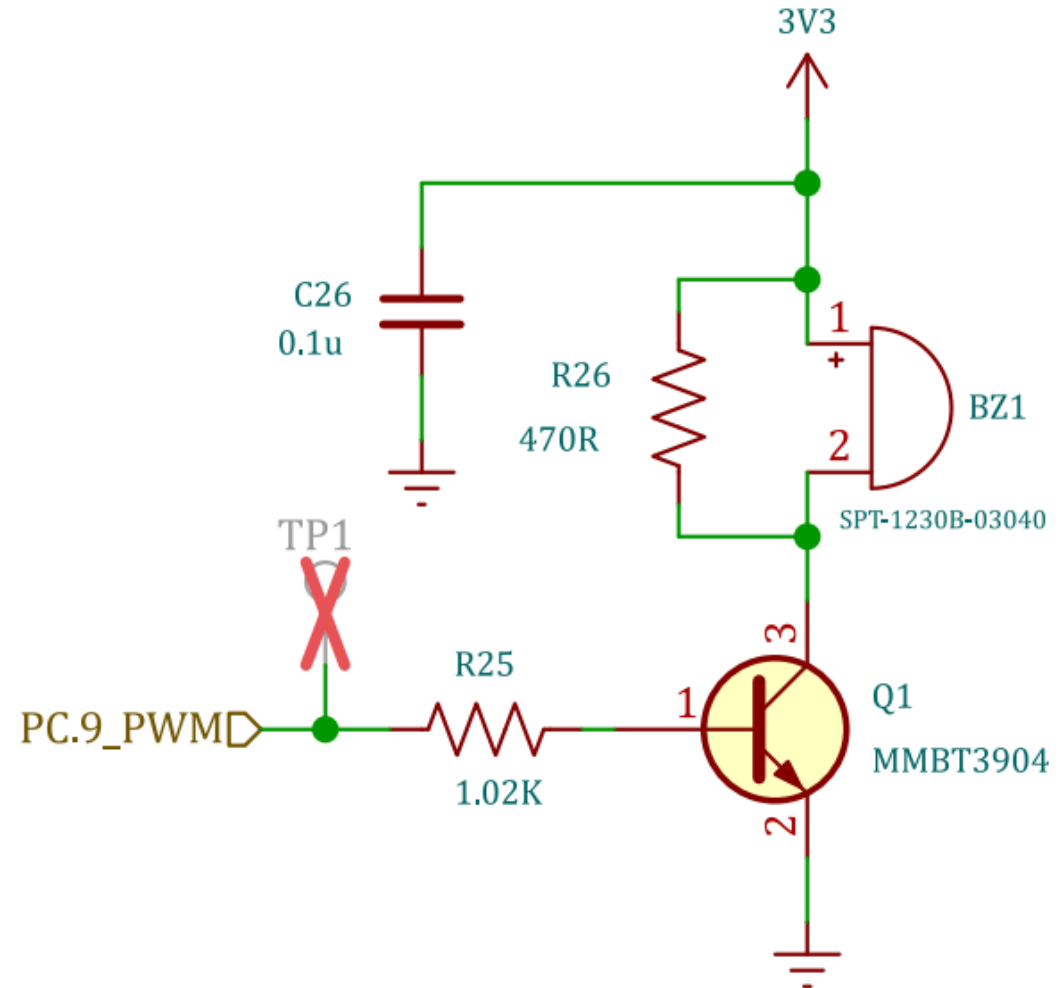
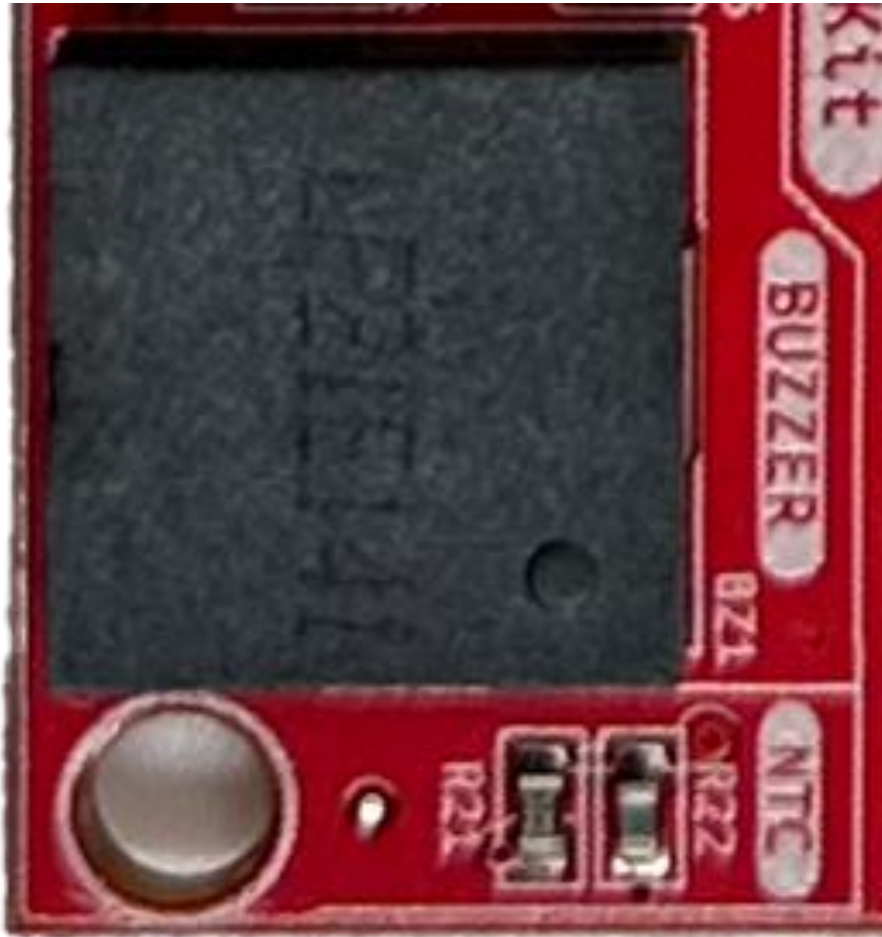


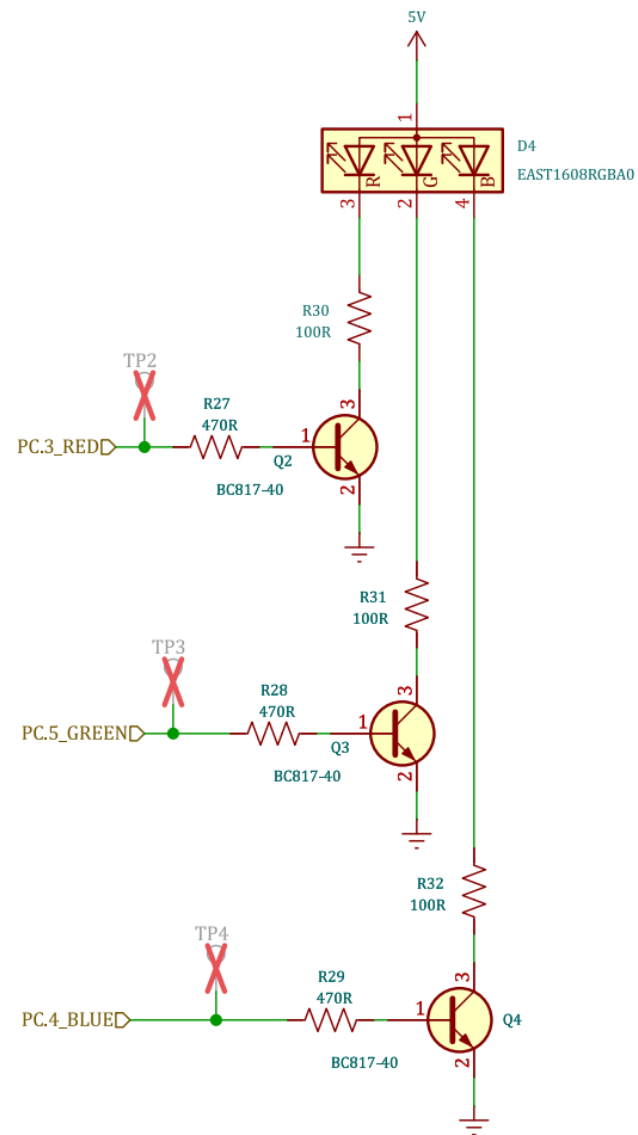
# Motor Driver



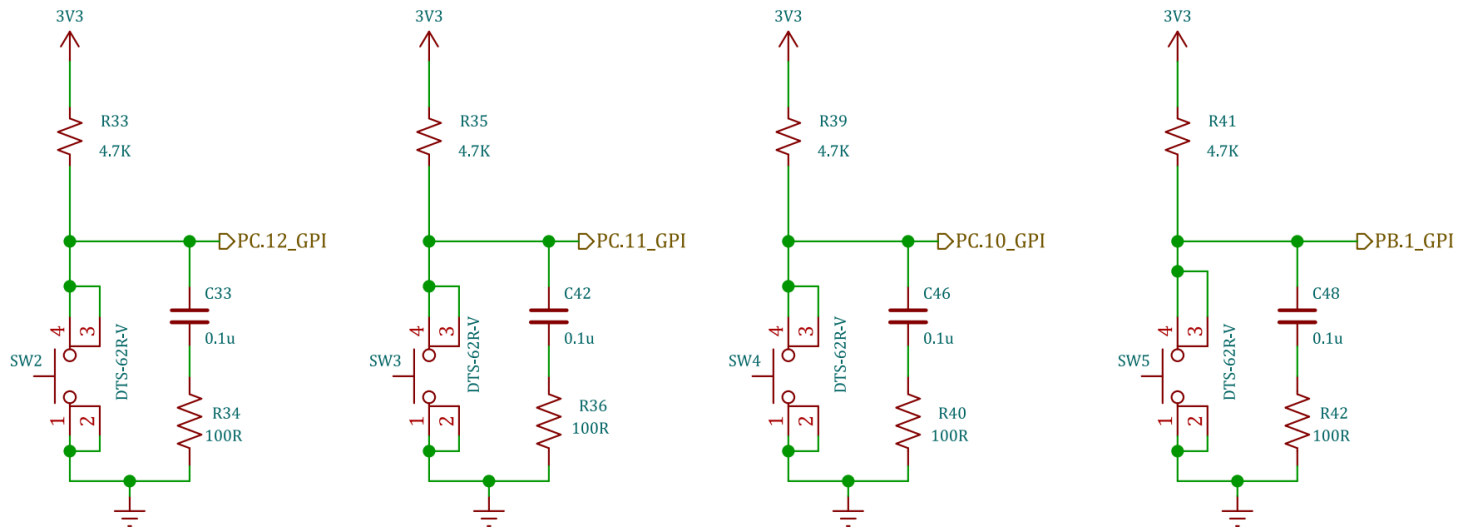


# Buzzer



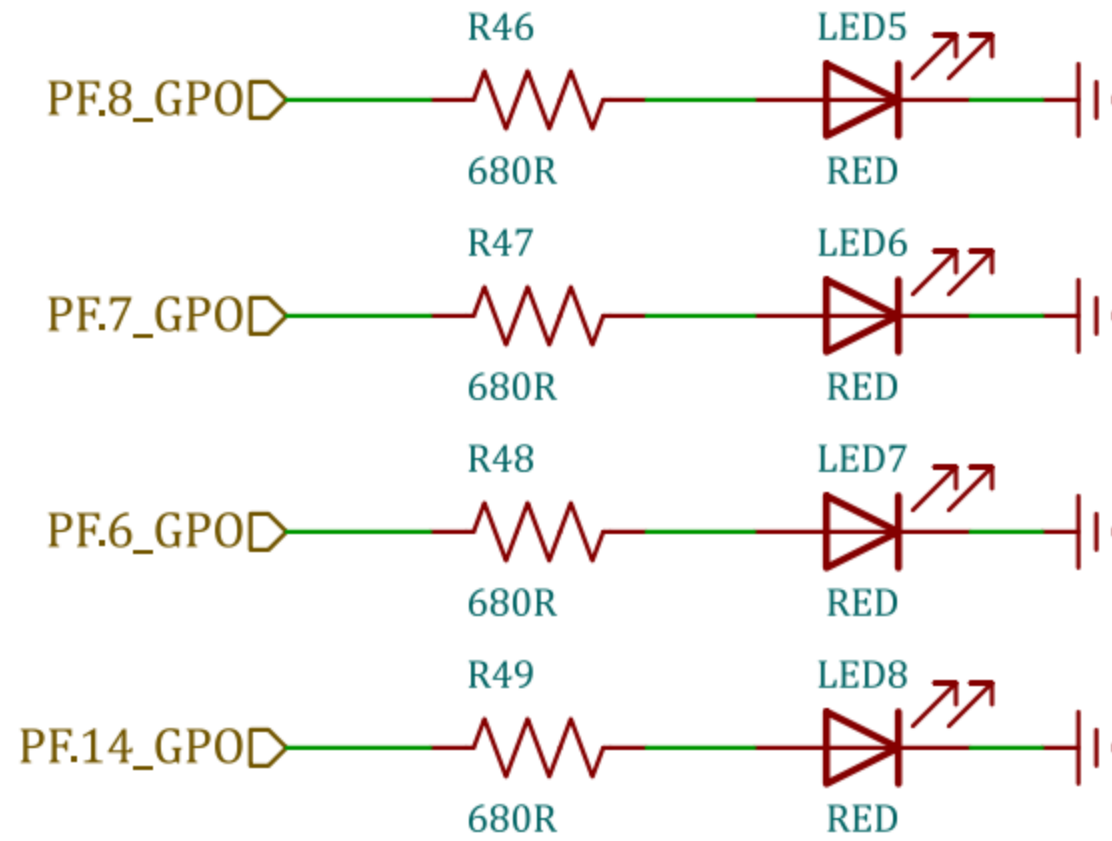


# User Buttons

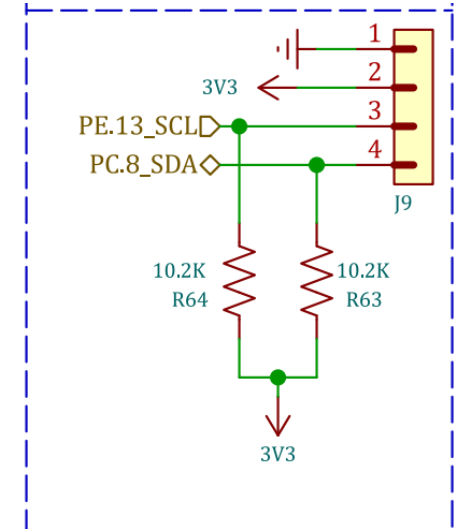
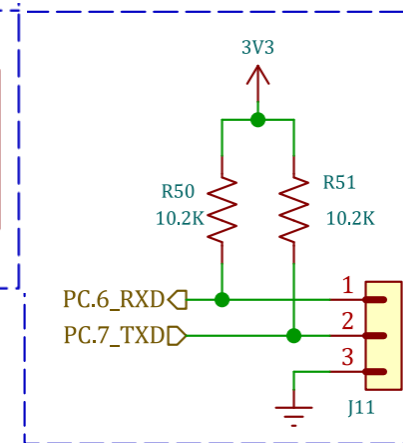
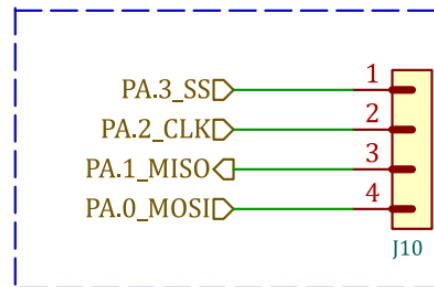
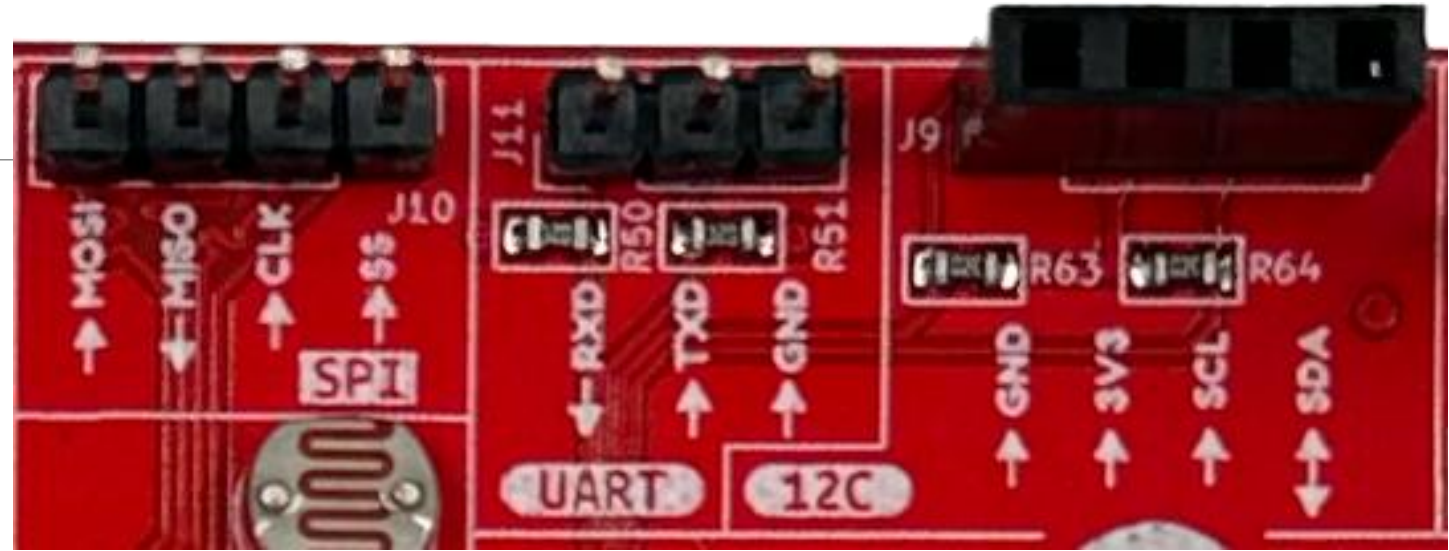




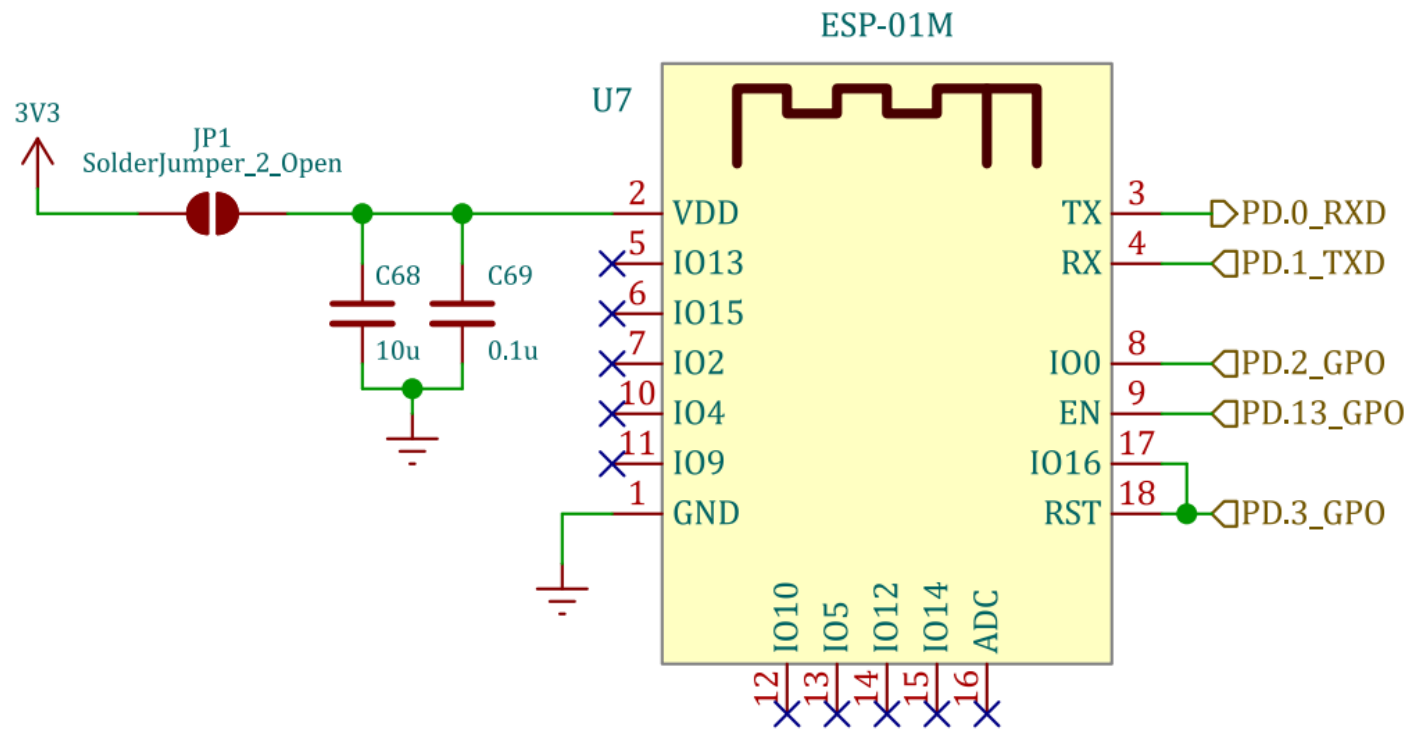
# LEDS



# UART, I2C, SPI



# ESP01-M





# Teşekkürler

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DR. BARIŞ GÖKÇE

<https://github.com/brgokce/NUVOTON-M032KG>