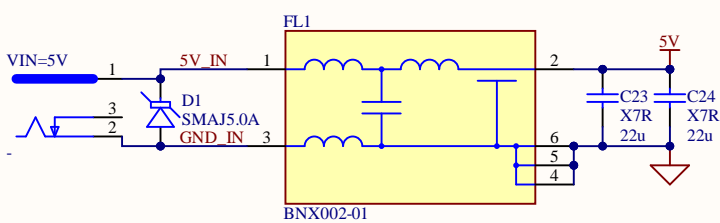
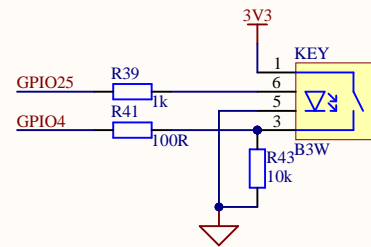
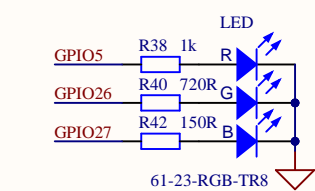
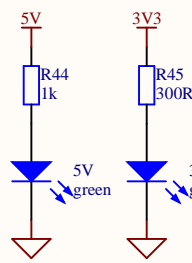
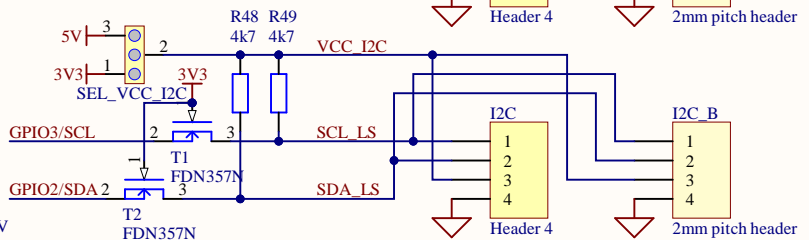
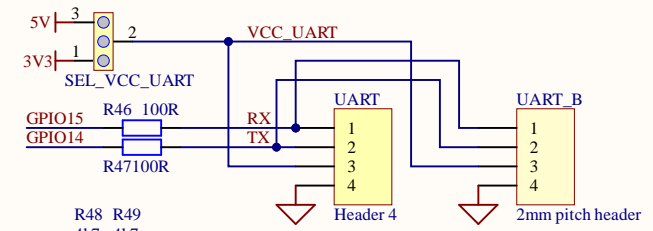
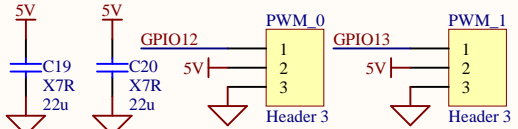
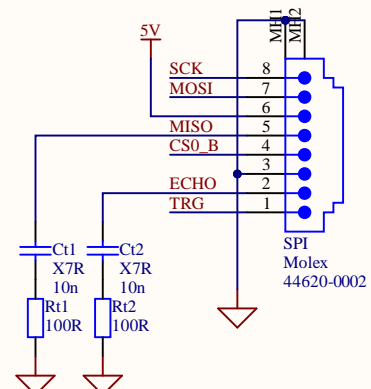
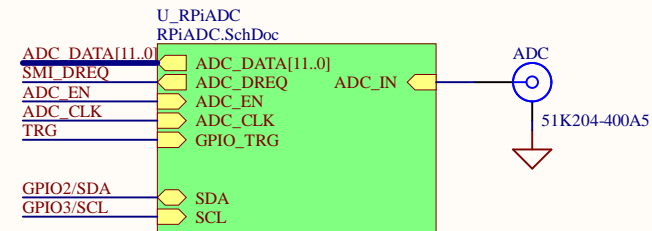


SMI_OE_B

SMI_DATA4 / PWM0
SMI_DATA5 / PWM1
SMI_DATA6 / UART_TX
SMI_DATA7 / UART_RX
SMI_DATA8
SMI_DATA9
SMI_DATA10
SMI_DATA11
SMI_DATA12
SMI_DATA13
SMI_DATA14
SMI_DATA15
SMI_DREQ



FID1 FID2 FID3
✖ ✖ ✖



SI LAB

Silizium Labor Bonn

UNI

BONN

Embedded

System

Lab

Rev 1.0 HK 1/2022

VIN=5V

5V

3.3V

R44

R45

FL1

C24

C23

The diagram illustrates the PCB layout of the SI LAB Embedded System Lab board. The board is populated with various components, including microcontrollers, memory, and peripheral interfaces. The layout is organized into several functional blocks:

- Power and Input:** VIN=5V, 5V, 3.3V, R44, R45, FL1, C24, C23.
- LED:** R42, R38, R40.
- TRG (GPIO INT):** U7, U5, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- ADC:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- SPI:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- PWM:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- UART:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- I2C:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- GPIO:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.
- KEY:** U3, U2, U4, U1, U6, U8, R50, C18, R5, R2, C10, C1, C7, R1, C7, R4, D2, R3, C11, C12, C14, R14, G9, C4, C8, C17, C16, C13, C15.

The board also features a large connector block on the left side, labeled with pins 1 through 27, and a smaller connector block on the right side, labeled with pins 1 through 10. The board is populated with various components, including microcontrollers, memory, and peripheral interfaces.