

Raspberry Pi Pico
U1
SC0915

SA01 1 UART0_TX/I2C0_SDA/SPI0_RX/GP0
SA02 2 UART0_RX/I2C0_SCL/GPIO_CSn/GP1
GND 3
GND 4 I2C1_SDA/SPI0_SCK/GP2
GND 5 I2C1_SCL/SPI0_TX/GP3
SDA 6 UART1_TX/I2C0_SDA/SPI0_RX/GP4
SCL 7 UART1_RX/I2C0_SCL/SPI0_CSn/GP5
GND 8
GND 9 I2C1_SDA/SPI0_SCK/GP6
GND 10 I2C1_SCL/SPI0_TX/GP7
GND 11 UART1_TX/I2C0_SDA/SPI1_RX/GP8
GND 12 UART1_RX/I2C0_SCL/SPI1_CSn/GP9
GND 13
GND 14 I2C1_SDA/SPI1_SCK/GP10
GND 15 I2C1_SCL/SPI1_TX/GP11
GND 16 UART0_TX/I2C0_SDA/GPI1_RX/GP12
GND 17 UART0_RX/I2C0_SCL/SPI1_CSn/GP13
GND 18
GND 19 I2C1_SDA/SPI1_SCK/GP14
GND 20 I2C1_SCL/SPI1_TX/GP15

VBUS 40
VSY5 39
GND 38
3V3_EN 37
3V3OUT 36
ADC_VREF 35
ADC2/GP28 34
AGND/GND 33
I2C1_SCL/ADC1/GP27 32
I2C1_SDA/ADC0/GP26 31
RUN 30
GP22 29
LED_DATA_1 28
GND 27
I2C0_SCL/GP21 26
I2C0_SDA/GP20 25
I2C1_SCL/SPI0_TX/GP19 24
I2C1_SDA/SPI0_SCK/GP18 23
GND 22
UART0_RX/I2C0_SCL/SPI0_CSn/GP17 21
UART0_TX/I2C0_SDA/SPI0_RX/GP16 20

D1
D_Schottky
+BATT

SW1 SW_Push
SW2 SW_Push
SW3 SW_Push
SW4 SW_Push
SW5 SW_Push
SW6 SW_Push
Gamepad Controls

Left LEDs

D7 LED R1 R
D8 LED R2 R
D9 LED R3 R
D10 LED R4 R
D11 LED R5 R

Right LEDs

D12 LED R6 R
D13 LED R7 R
D14 LED R8 R
D15 LED R9 R
D16 LED R10 R

WS2812 LEDs and decoupling caps

+3V3 C1 C
GND
LED_DATA_1 4 DIN VDD VSS GND
D2 WS2812B 2 DOUT VSS GND
+3V3 C2 C
GND
D3 WS2812B 2 DOUT VSS GND
+3V3 C3 C
GND
D4 WS2812B 2 DOUT VSS GND
+3V3 C4 C
GND
D5 WS2812B 2 DOUT VSS GND
+3V3 C5 C
GND
D6 WS2812B 2 DOUT VSS GND

Add-on output (V1.69BIS)

J1 SA0
+3V3 1
GND 2
SDA 3
SA02 6
SA01 5
SCL 4

Battery Pack (1.8-5.5V)

+BATT
BT1 Battery
GND

GalaxyAllie

Sheet: /
File: molly-the-mermaid.kicad_sch

Title: Molly the Mermaid

Size: A4 Date: Rev: 1.1
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