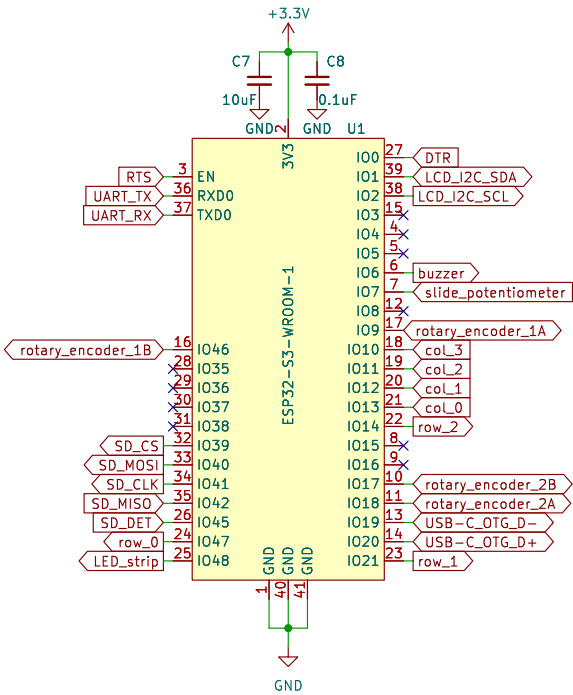


uC pinout



Power source



File: power-source.kicad_sch

IO



File: io.kicad_sch

USB-C interface



File: usb-c-interface.kicad_sch

Micro SD connector



File: micro-sd-connector.kicad_sch

Sheet: /
File: keypad.kicad_sch

Title: Keypad board

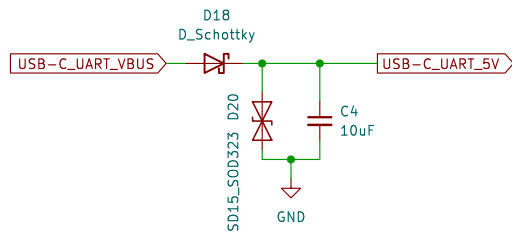
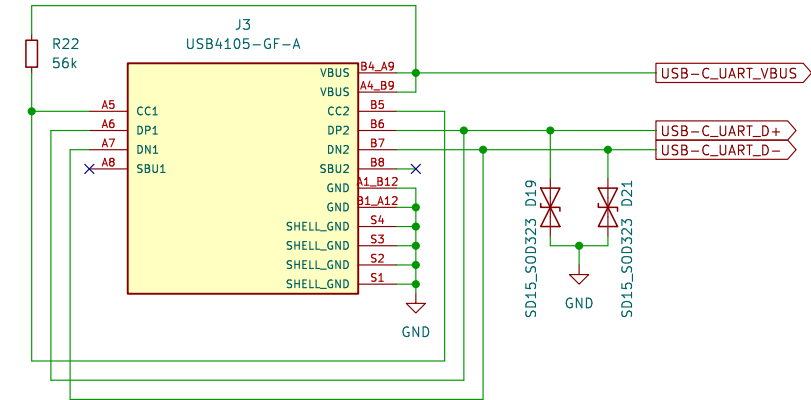
Size: A4 Date: 2023-11-15

KiCad E.D.A. kicad 7.0.8

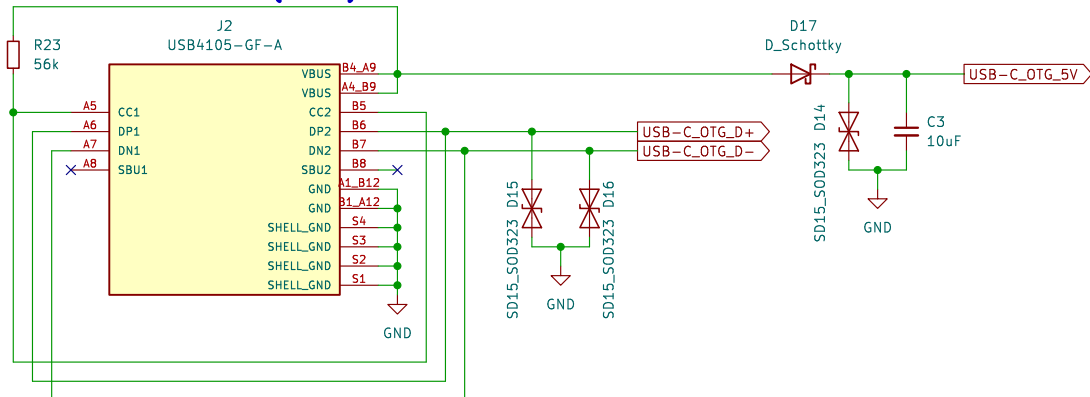
Rev: 1.1

Id: 1/7

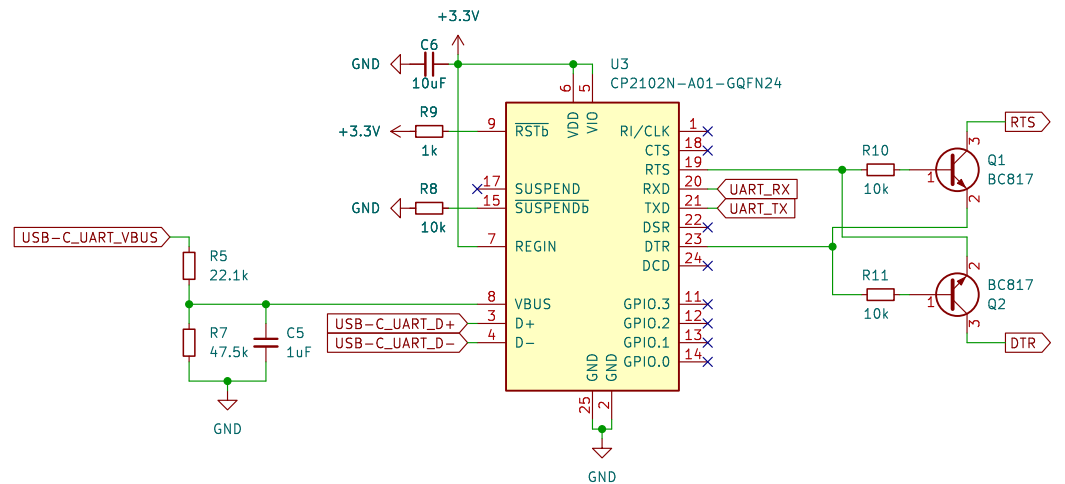
USB-C (UART)



USB-C (OTG)



USB-UART converter



Sheet: /USB-C interface/
File: usb-c-interface.kicad_sch

Title: Keypad board

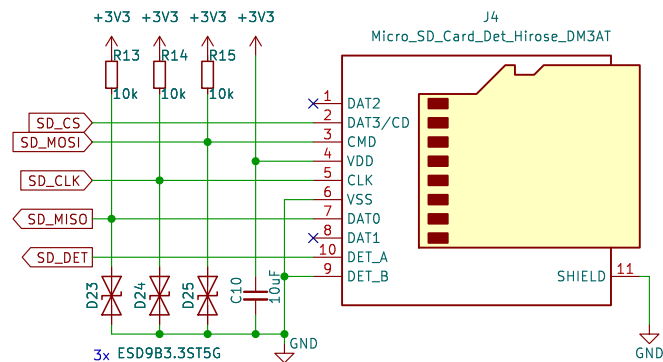
Size: A4 Date: 2023-11-15

KiCad E.D.A. kicad 7.0.8

Rev: 1.1

Id: 4/7

Micro SD connector



Sheet: /Micro SD connector/
File: micro-sd-connector.kicad_sch

Title: Keypad board

Size: A4 Date: 2023-11-15

KiCad E.D.A. kicad 7.0.8

Rev: 1.1

Id: 5/7

Battery power source with charging circuit

use protected Li cells only!

USB-C_UART_5V

USB-C_OTG_5V

C15 4.7uF

GND

R2 2k

500 mA charger

U15 MCP73832-2-OT

VDD

VBAT

STAT

D1 LED

R4 470

Screw_Terminal_01x02

J1

C16 4.7uF

GND

C17 10uF

GND

IC1 TPS61023DRLT

L1 1uH

FB

EN

VIN

GND

SW

VOUT

R12 732k

R16 100k

GND

C18 22uF

GND

C19 22uF

GND

battery_5V

5V LDO

WS-SLSU_Slide_Switch

S2

battery_5V

USB-C_UART_5V

USB-C_OTG_5V

C1 1uF

GND

U2 TLV75901PDRVT

IN

OUT

DNC

FB

EN

EPAD

GND

R1 100k

R3 20k

C2 1uF

GND

GND

GND

GND

Sheet: /Power source/
File: power-source.kicad_sch

Title: Keypad board

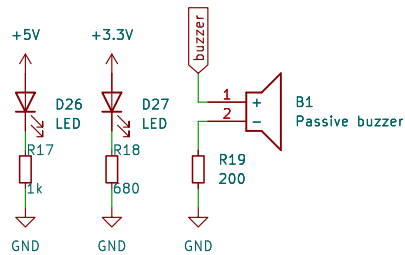
Size: A4 Date: 2023-11-15 Rev: 1.1

KiCad E.D.A. kicad 7.0.8 Id: 6/7

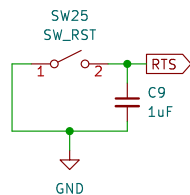
Title: Keypad board

Rev: 1.1
Id: 6/7

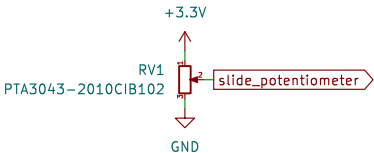
Indicators



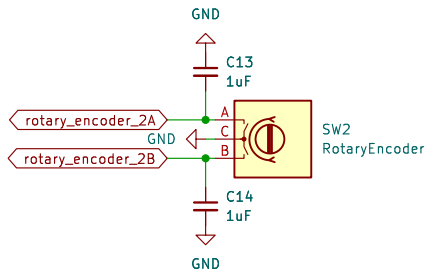
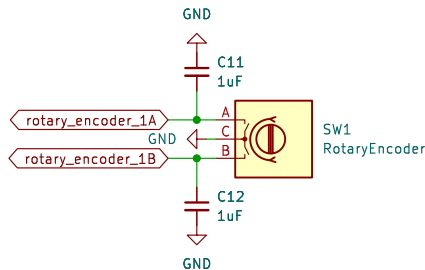
Manual reset



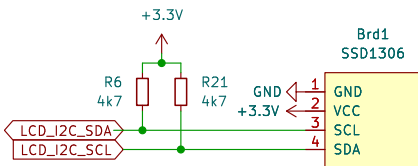
Slide potentiometer



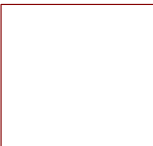
Rotary encoders



LCD Display

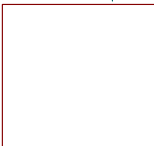


Button matrix1



File: button-matrix.kicad_sch

Button led strip1



File: button-led-strip.kicad_sch

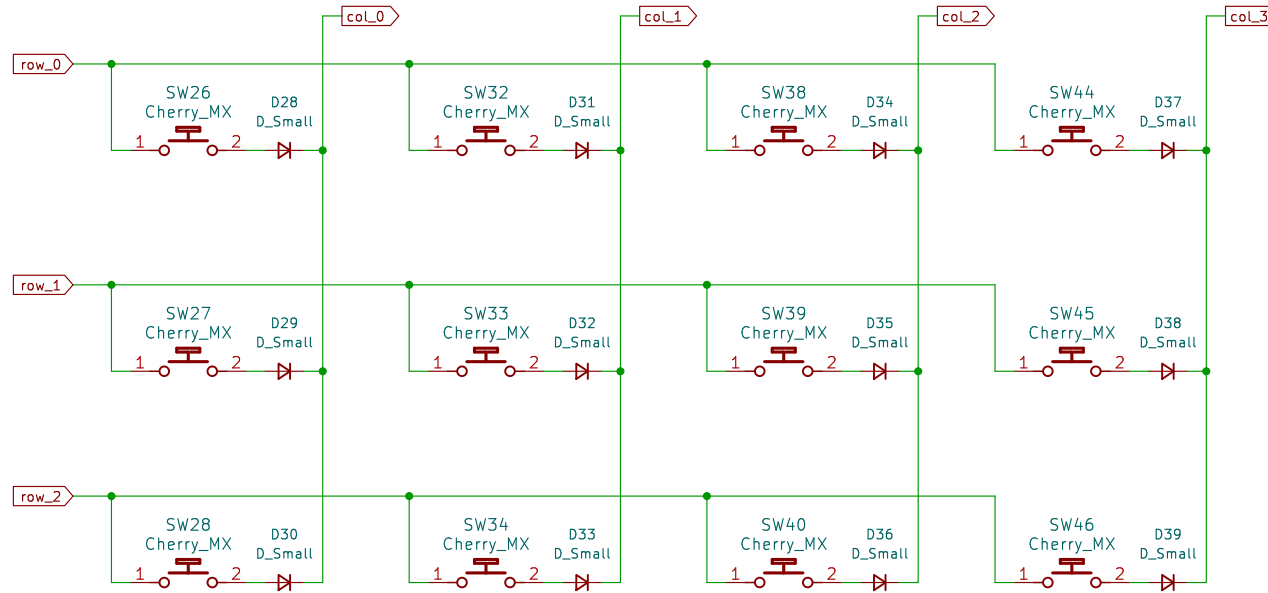
Sheet: /10/
File: io.kicad_sch

Title: Keypad board

Size: A4 Date: 2023-11-15
KiCad E.D.A. kicad 7.0.8

Rev: 1.1
Id: 7/7

Button matrix (4x3)



Switches – best if transparent for LED light pass through (e.g. LED Cherry MX)
Diodes – 12x 1N4148W-13-F

Sheet: /IO/Button matrix1/
File: button-matrix.kicad_sch

Title: Keypad board

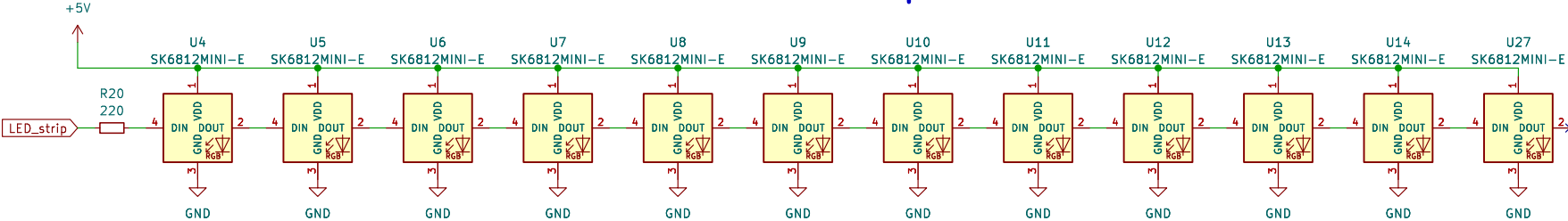
Size: A4 Date: 2023-11-15

KiCad E.D.A. kicad 7.0.8

Rev: 1.1

Id: 8/7

LED strip



Sheet: /IO/Button led strip1/
File: button-led-strip.kicad_sch

Title: Keypad board

Size: A4

Date: 2023-11-15

KiCad E.D.A. kicad 7.0.8

Rev: 1.1

Id: 9/7