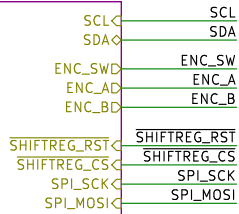
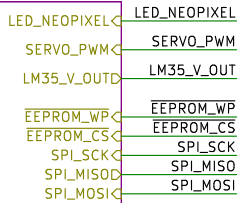


HMI



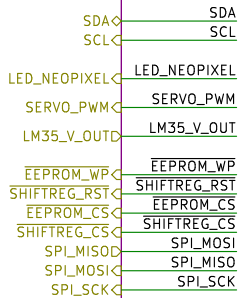
File: HMI.kicad_sch

Sensors & actuators



File: Sensors_and_actuators.kicad_sch

Debug

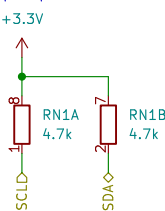


File: Debug.kicad_sch

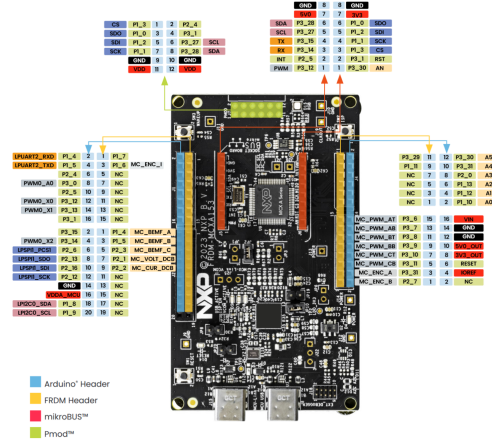
Changes V3.0:

- Removed capacitor at encoder input.
- Removed MISO connection with shiftregister.
- Changed 3.3V to 5V at the LM35 power input.
- Changed P3_12 to P3_10.
- Added termination resistor at neopixel data line.

I2C pullups

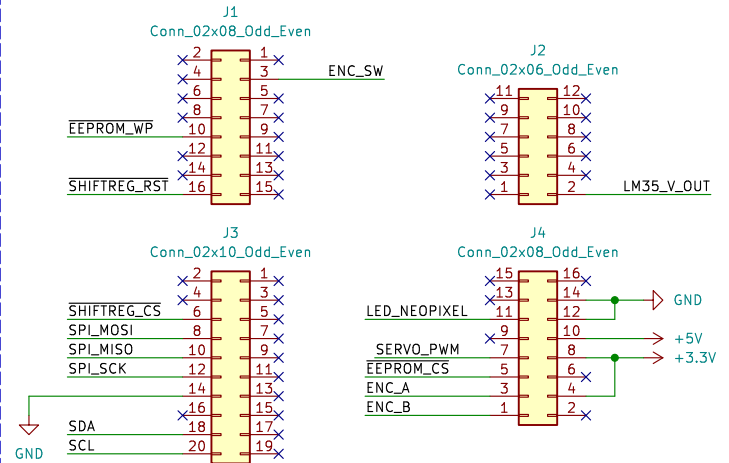
Mounting holes screen
bracket, M2.2

Quick Start Guide FRDM-MCXA153



3

Hat pinout



Symbols

Authors: Thomas Ijseldijk, Hugo Arends & Emiel Visser
HANSheet: /
File: FRDM-MCXX-Shield_V3.0.kicad_sch

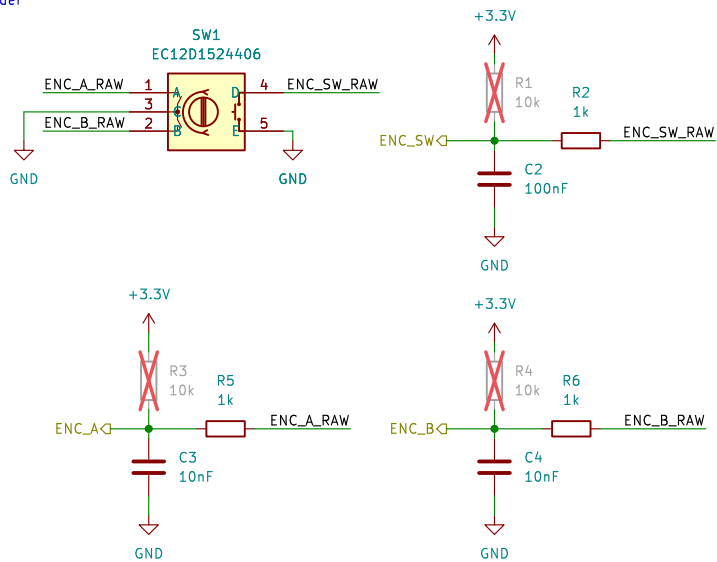
Title: Main

Size: A4
KiCad E.D.A. 8.0.1

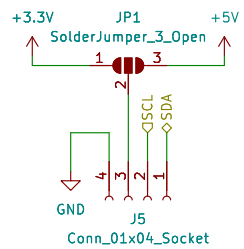
Date: 2024-06-19

Rev: V3.0
Id: 1/4

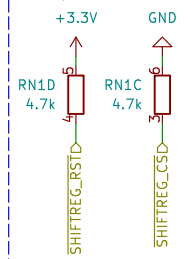
Encoder



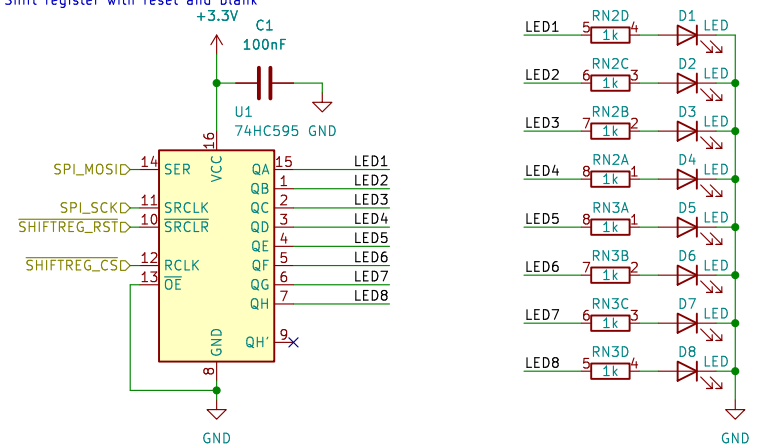
OLED



Pull up/down resistors



Shift register with reset and blank



Authors: Thomas Ijseldijk, Hugo Arends & Emiel Visser

HAN

Sheet: /HMI/

File: HMI.kicad_sch

Title: HMI

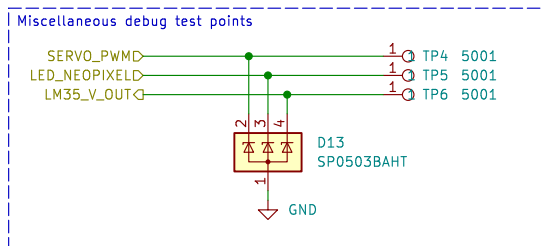
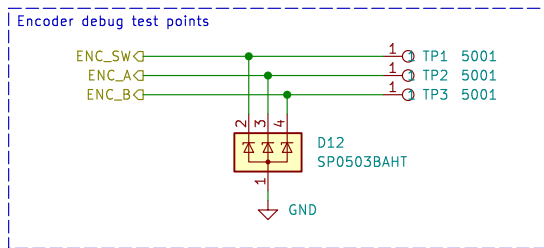
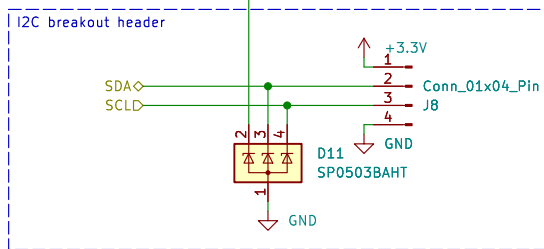
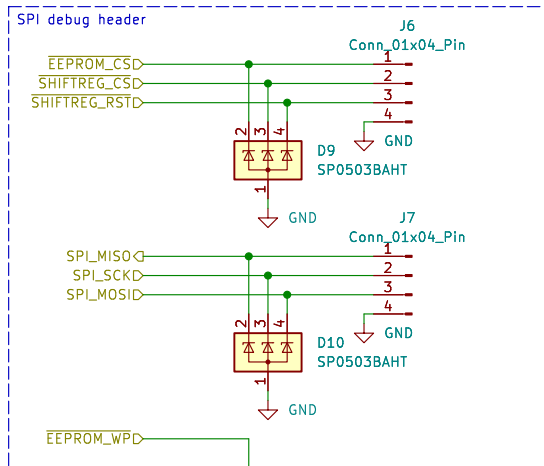
Size: A4

Date: 2024-06-17

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Rev: V3.0

Id: 2/4



COLOR KEYED

MINIATURE

SPECIFICATIONS
Terminal: .010 (.25) x .020 (.51) Phosphor Bronze, Silver Plate
Base: Nylon 46, UL Rated 94V-0
Mtg. Hole: .040 (1.0) Diameter

CAT. NO.	BASE COLOR	CAT. NO.	BASE COLOR
5000	RED	5115	BROWN
5001	BLACK	5116	GREEN
5002	WHITE	5117	BLUE
5003	ORANGE	5118	GREY
5004	YELLOW	5119	PURPLE

COMPACT

SPECIFICATIONS
Terminal: .015 (.38) x .032 (.81) Phosphor Bronze, Silver Plate
Base: Nylon 46, UL Rated 94V-0
Mtg. Hole: .063 (1.6) Diameter

CAT. NO.	BASE COLOR	CAT. NO.	BASE COLOR
5005	RED	5120	BROWN
5006	BLACK	5121	GREEN
5007	WHITE	5122	BLUE
5008	ORANGE	5123	GREY
5009	YELLOW	5124	PURPLE

MULTIPURPOSE

SPECIFICATIONS
Terminal: .015 (.38) x .032 (.81) Phosphor Bronze, Silver Plate
Base: Nylon 46, UL Rated 94V-0
Mtg. Hole: .063 (1.6) Diameter

CAT. NO.	BASE COLOR	CAT. NO.	BASE COLOR
5010	RED	5125	BROWN
5011	BLACK	5126	GREEN
5012	WHITE	5127	BLUE
5013	ORANGE	5128	GREY
5014	YELLOW	5129	PURPLE

Authors: Thomas Ijseldijk, Hugo Arends & Emiel Visser
HAN

Sheet: /Debug/
File: Debug.kicad_sch

Title: Debug

Size: A4 Date: 2024-06-17

KiCad E.D.A. 8.0.1

Rev: V3.0

Id: 3/4

