

HMI

SCL< SCL
SDA< SDA
ENC_SW< ENC_SW
ENC_AD< ENC_A
ENC_BD< ENC_B
SHIFTREG_RST< SHIFTREG_RST
SHIFTREG_CS< SHIFTREG_CS
SPL_CLK< SPL_CLK
SPL_MISO< SPL_MISO
SPL_MOSI< SPL_MOSI

File: HMI.kicad_sch

Sensors & actuators

LED_NEOPIXEL< LED_NEOPIXEL
SERVO_PWM< SERVO_PWM
ADC_OUTD< ADC_OUT
WRITE_PROT< WRITE_PROT
EEPROM_CS< EEPROM_CS
SPL_CLK< SPL_CLK
SPL_MISO< SPL_MISO
SPL_MOSI< SPL_MOSI

File: Sensors_and_actuators.kicad_sch

Debug

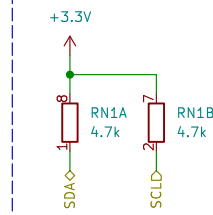
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SERVO_PWM< SERVO_PWM
ADC_OUTD< ADC_OUT
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SPL_MISO< SPL_MISO
SPL_MOSI< SPL_MOSI
SPL_CLK< SPL_CLK
ENC_SW< ENC_SW
ENC_AD< ENC_A
ENC_BD< ENC_B

File: Debug.kicad_sch

Changes V2.0:

- Changed pinout.
- Changed SN74LV164ADR (shftreg) for two 74HC595's.
- Removed extra I2C debug header.
- Removed FXLS8974CF.
- Removed buttons.
- Removed GPS/BT header.
- Removed RGB-led.
- Removed Potentiometer.
- Added debug pins.
- Added test hooks.
- Added ESD protection diodes.

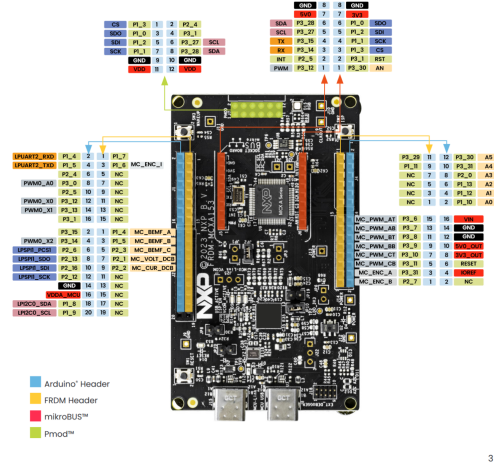
I2C pullups



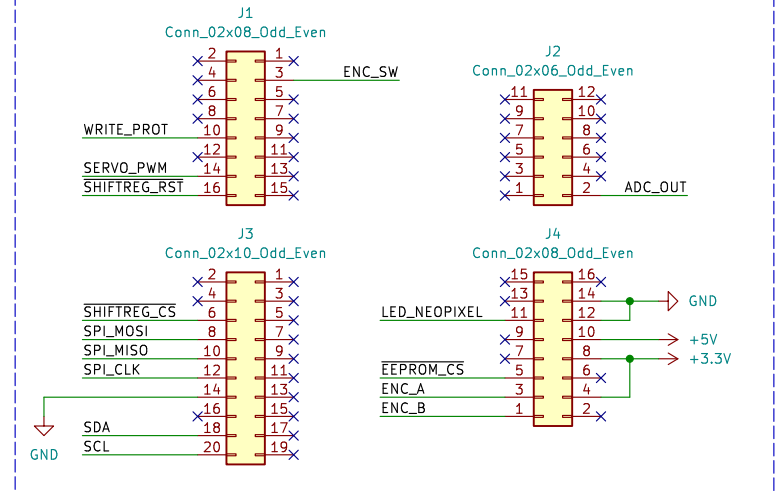
Mounting holes screen bracket, M2.2



Quick Start Guide FRDM-MCXA153



Hat pinout



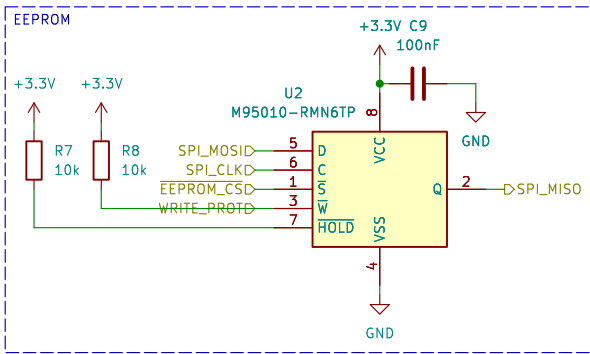
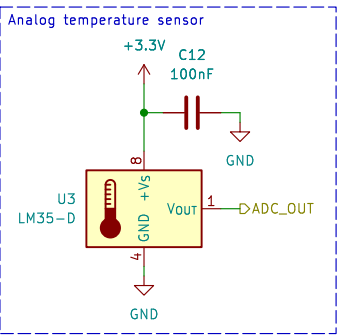
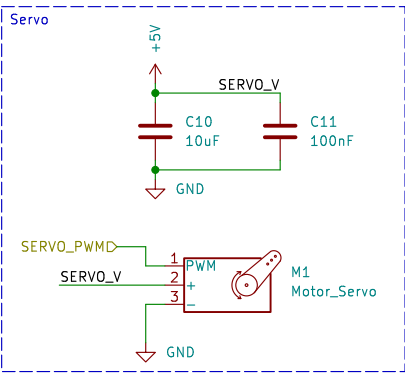
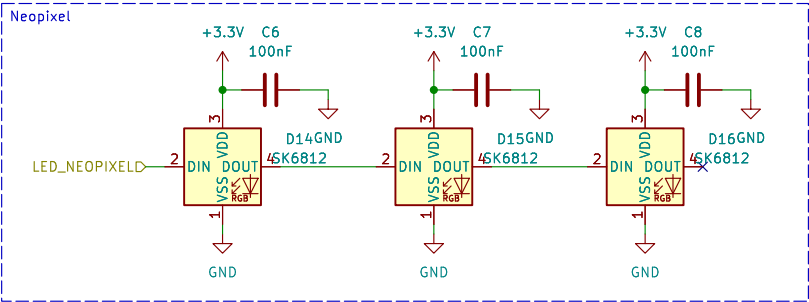
Authors: Thomas Ijseldijk, Hugo Arends & Emiel Visser
HAN

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Title: Main

Size: A4 Date: 2024-04-28
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Rev: V2.0
Id: 1/4



Authors: Thomas Ijseldijk, Hugo Arends & Emiel Visser
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Sheet: /Sensors & actuators/
File: Sensors_and_actuators.kicad_sch

Title: Sensors & actuators

Size: A4 Date: 2024-04-26

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Rev: V2.0

Id: 4/4