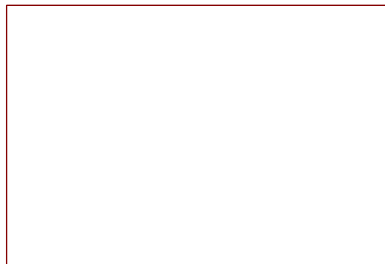


Root [1]

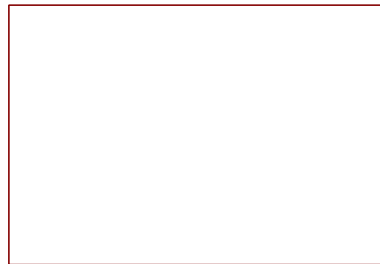
Technical Sheet Only!
Please refer to the subsequent sheets for schematic

Power



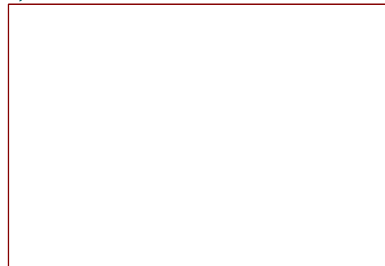
File: power.kicad_sch

Sensor



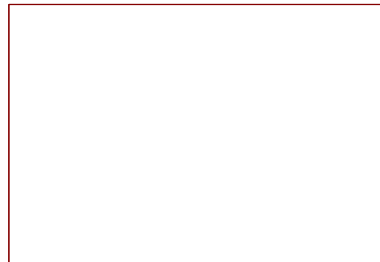
File: Sensor.kicad_sch

System



File: System.kicad_sch

eFuse



File: efuse.kicad_sch

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Sheet: /

File: VoxLink.kicad_sch

Title: Root

Size: A4

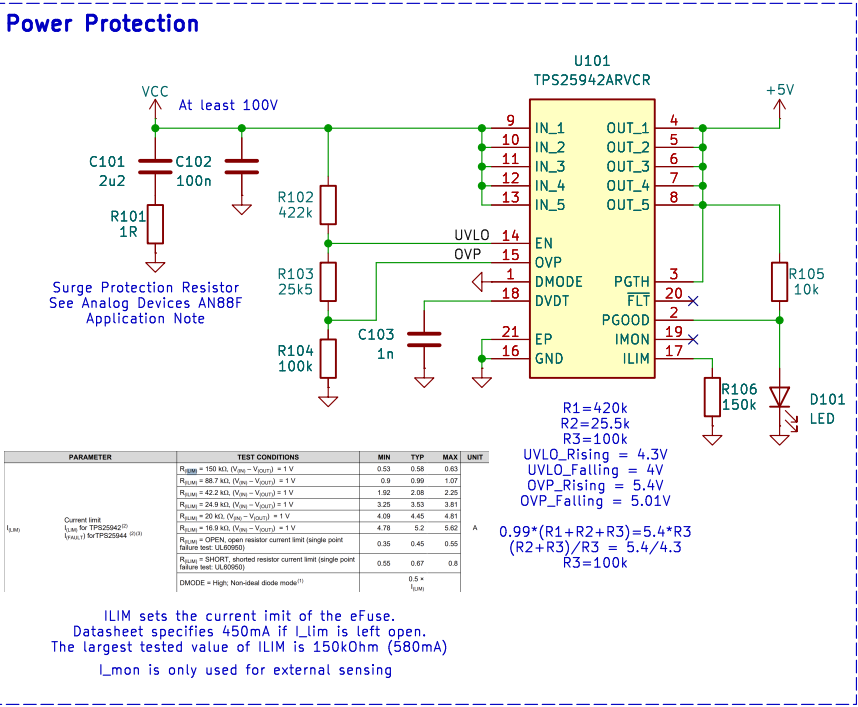
Date: 2025-11-17

Rev: 1.0

KiCad E.D.A. 9.0.4

Id: 0/5

eFuse [1]



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Sheet: /eFuse/

File: efuse.kicad_sch

Title: eFuse

Size: A4

Date: 2025-12-04

Rev: 1.0

KiCad E.D.A. 9.0.4

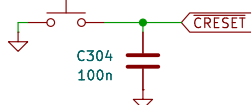
Id: 1/5

D

System [3]

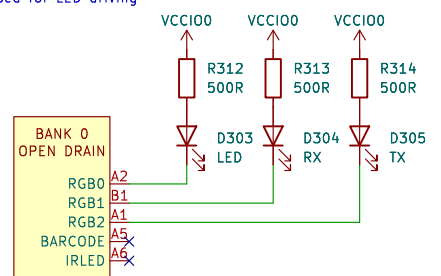
FPGA Manual Reset

FPGA Manual Reset
SW301
Reset

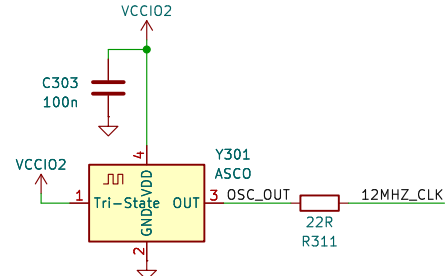


Open-Drain Outputs

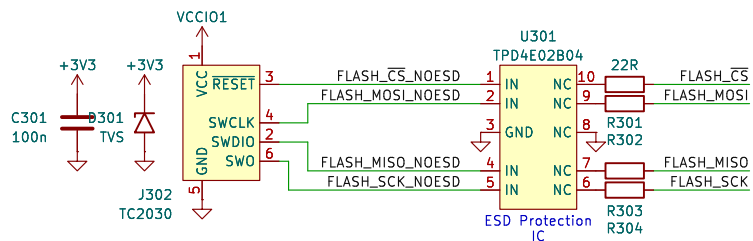
Used for LED driving



External Oscillator

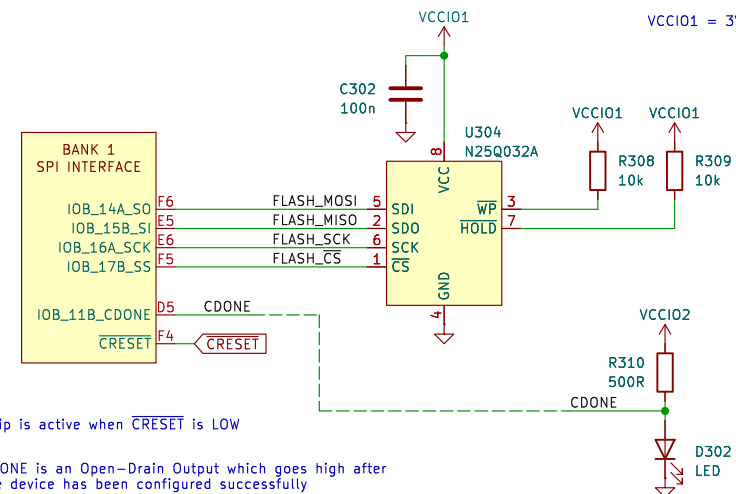


Tag Connect Programming Interface



SPI Flash

Part choice may be subject to
change in the next revision



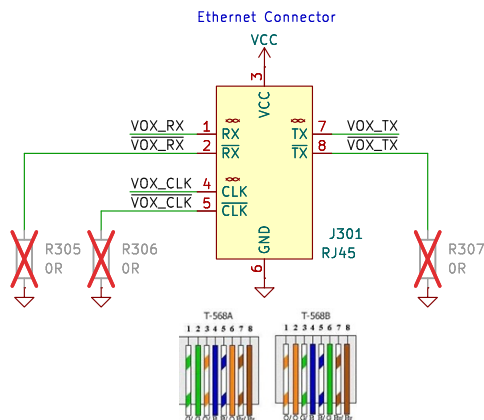
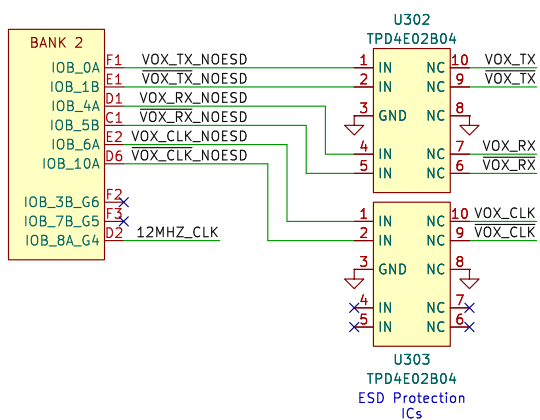
Chip is active when $\overline{\text{CRESET}}$ is LOW

CDONE is an Open-Drain Output which goes high after the device has been configured successfully

See: iCE40 Programming and Configuration app note
Section 9.2. SPI PROM Requirements

If LED shines, the device has not been configured properly!

VoxLink Ethernet Connection



No Placement (NOP) – Used in case a differential driver would not work → NEGATIVE can be tied to GND

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Sheet: /System/

File: System.kicad_sch

Title: System

Size: A4	Date: 2025-11-17
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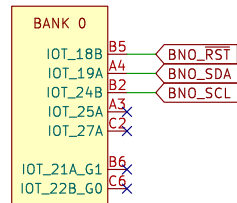
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Rev: 1.0

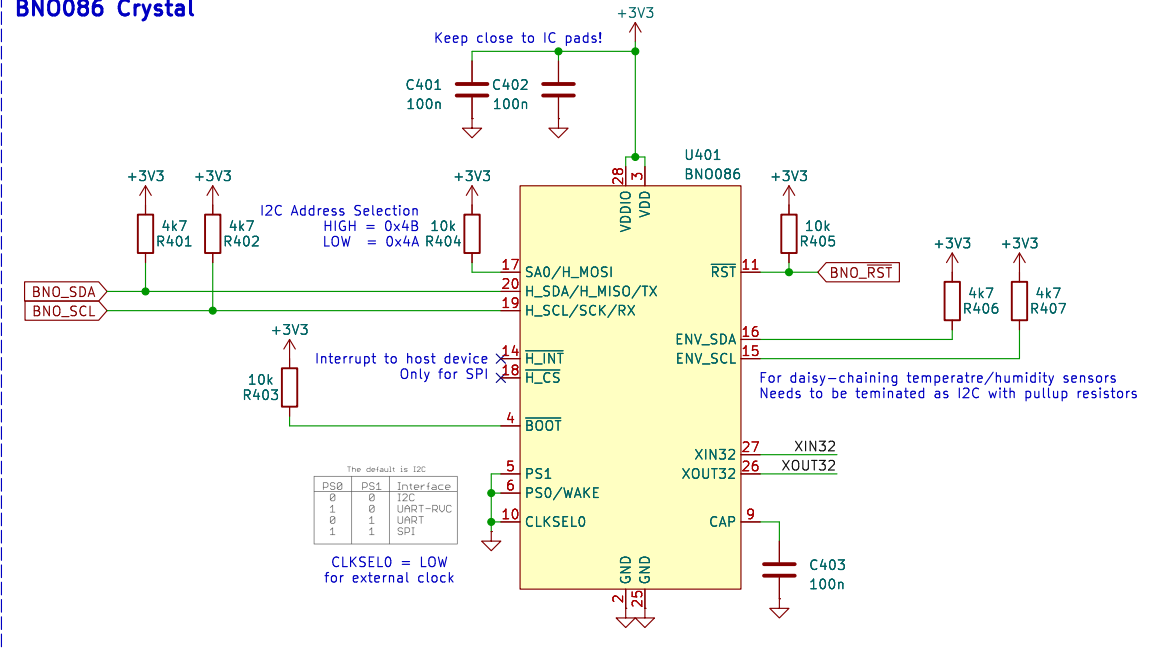
Id: 3/5

Sensor [4]

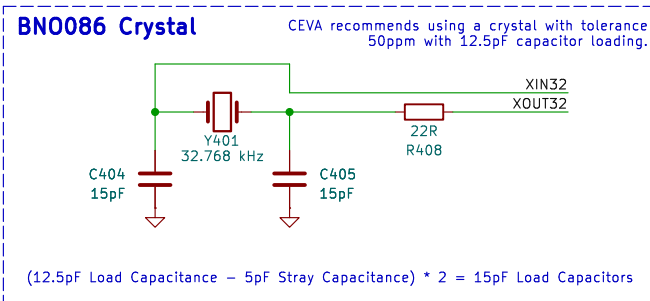
I2C Interface



BN0086 Crystal



BN0086 Crystal



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Sheet: /Sensor/
File: Sensor.kicad_sch

Title: Sensor

Size: A4 Date: 2025-11-18

KiCad E.D.A. 9.0.4

Rev: 1.0

Id: 4/5