

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: VoxSense.kicad_sch

Title: Root

Size: A4

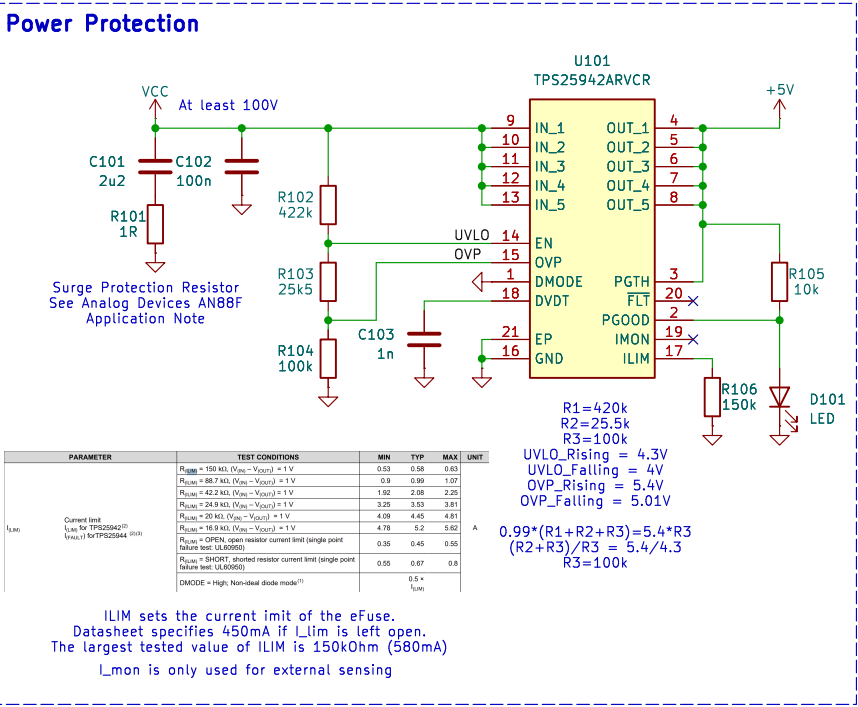
Date: 2025-11-17

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

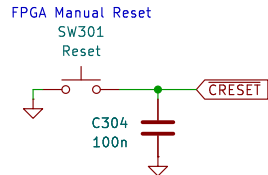
Id: 1/5

D

Id: 2/5

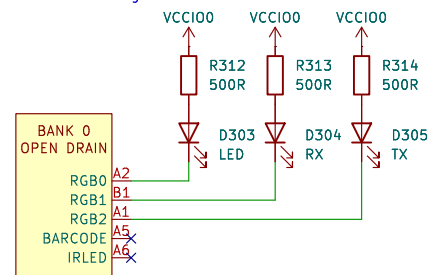
System [3]

FPGA Manual Reset

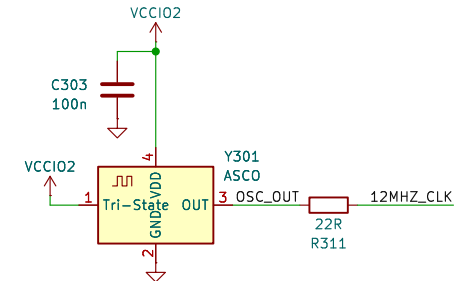


Open-Drain Outputs

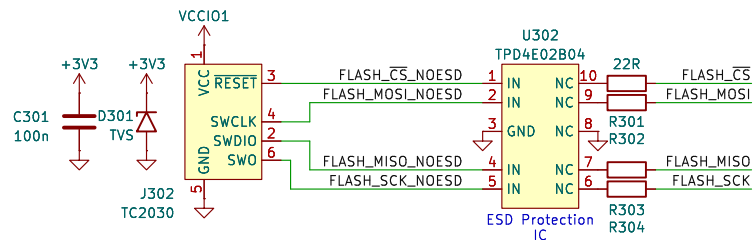
Used for LED driving



External Oscillator

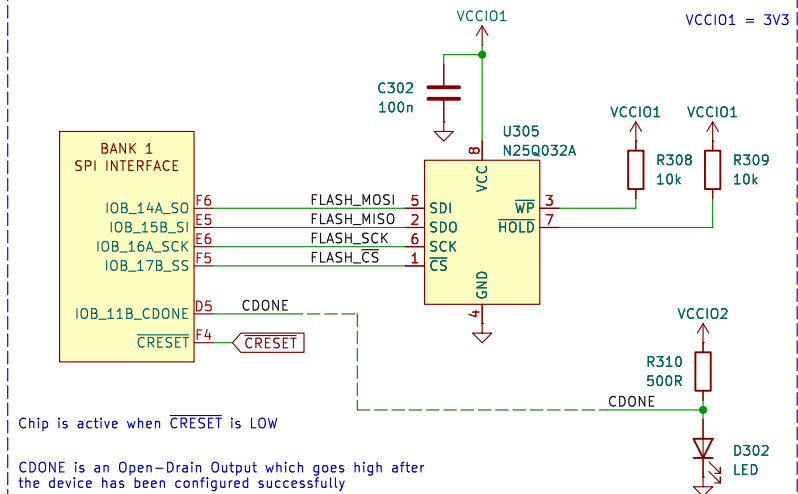


Tag Connect Programming Interface



SPI Flash

Part choice may be subject to change in the next revision



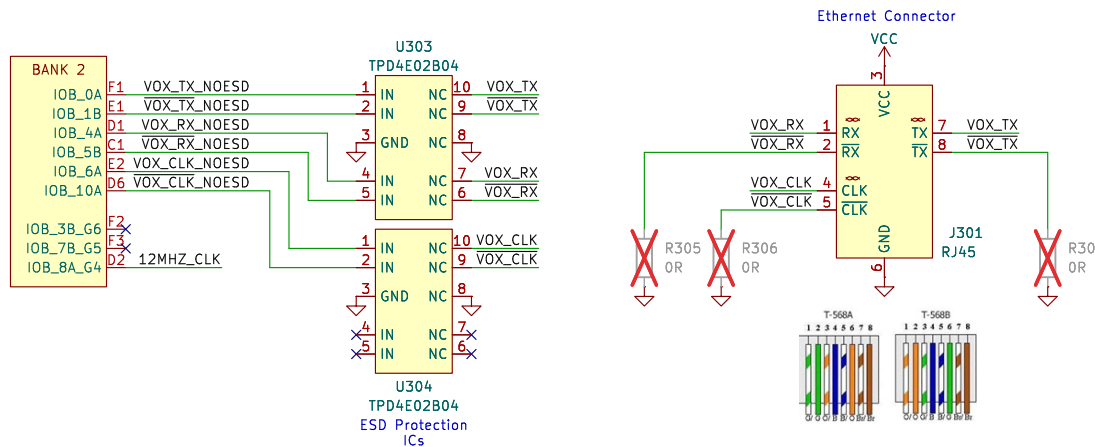
Chip is active when CRESET is LOW

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

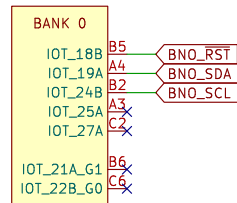
KiCad E.D.A. 9.0.4

Rev: 1.0

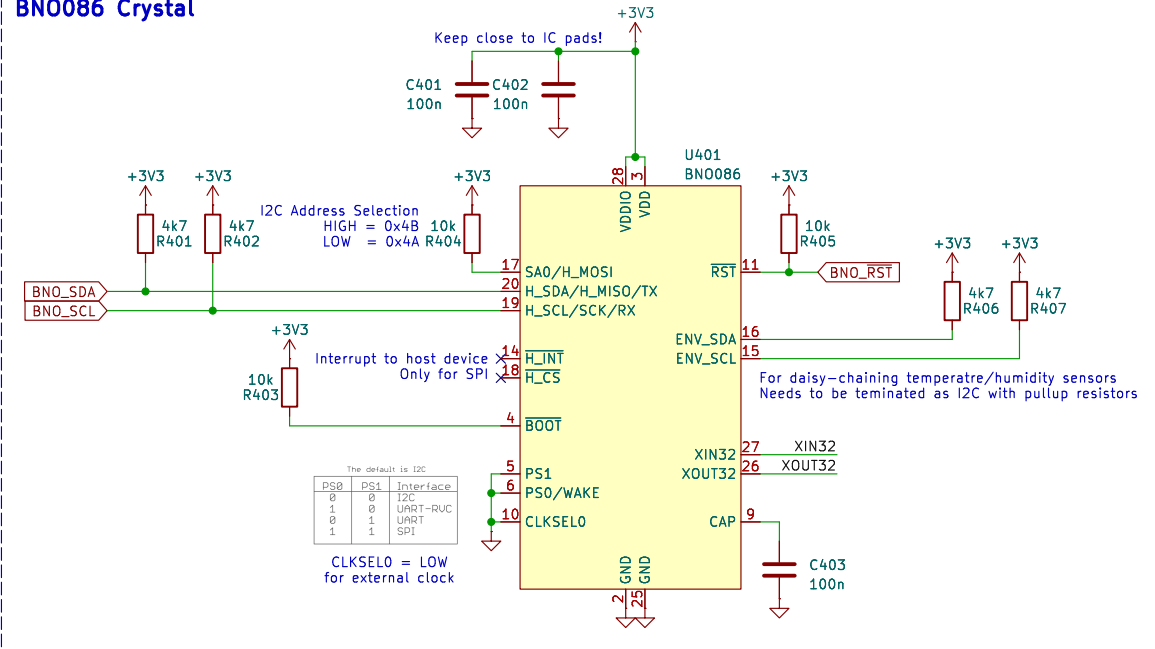
Id: 3/5

Sensor [4]

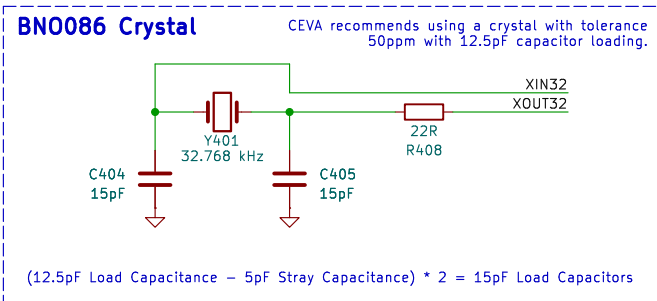
I2C Interface



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