

Root [0]

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

FTDI



File: ftdi.kicad_sch

Programming

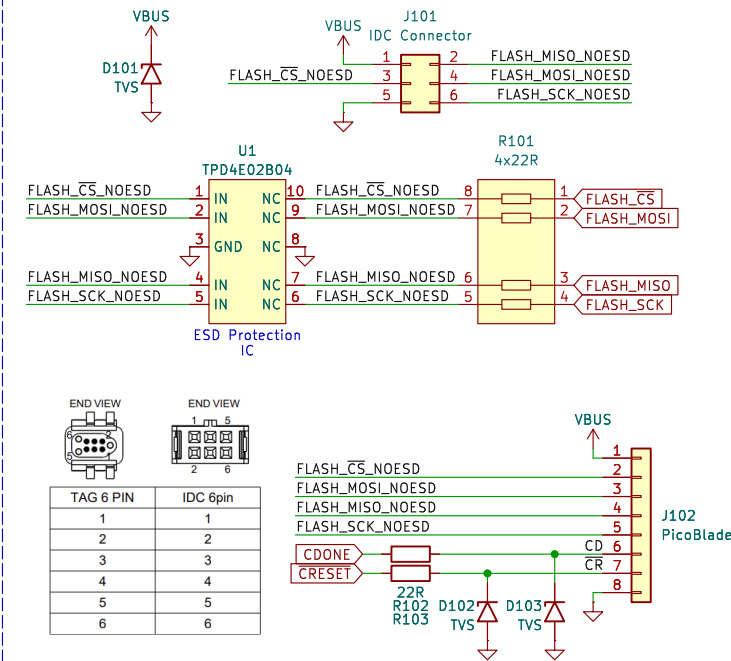


File: programming.kicad_sch

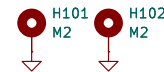
Czech Technical University in Prague		
Sheet: /		
File: Programmer_Board.kicad_sch		
Title: VoxSense Sensor Board Programmer – Root		
Size: A4	Date: 2025–12–09	Rev: 1.0
KiCad E.D.A. 9.0.6		Id: 0/3

Programming Interfaces [1]

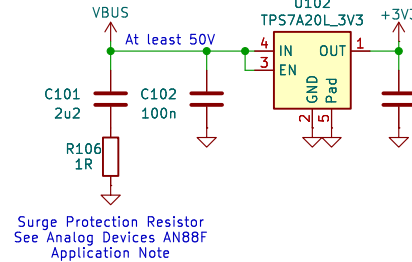
Tag Connect Programming Interface



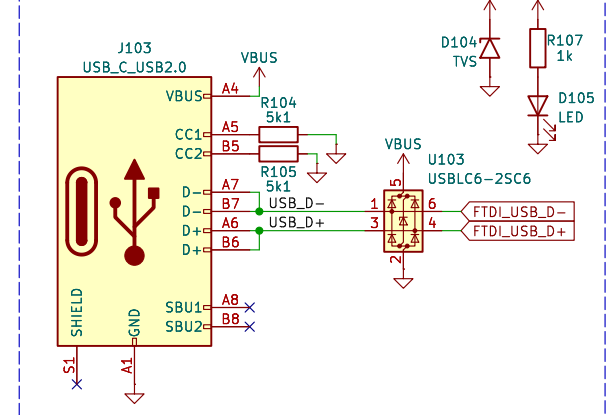
Mounting Holes



Core Supply Voltage



USB 2.0



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Sheet: /Programming/
File: programming.kicad_sch

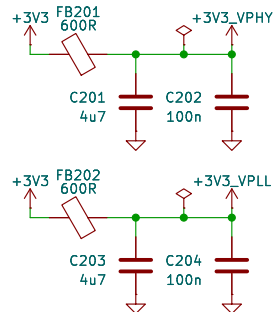
Title: Programming Interfaces

Size: A4 Date: 2025-12-13
KiCad E.D.A. 9.0.6

Rev: 1.0
Id: 1/3

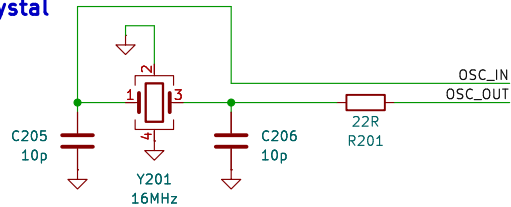
FTDI [2]

Filtering



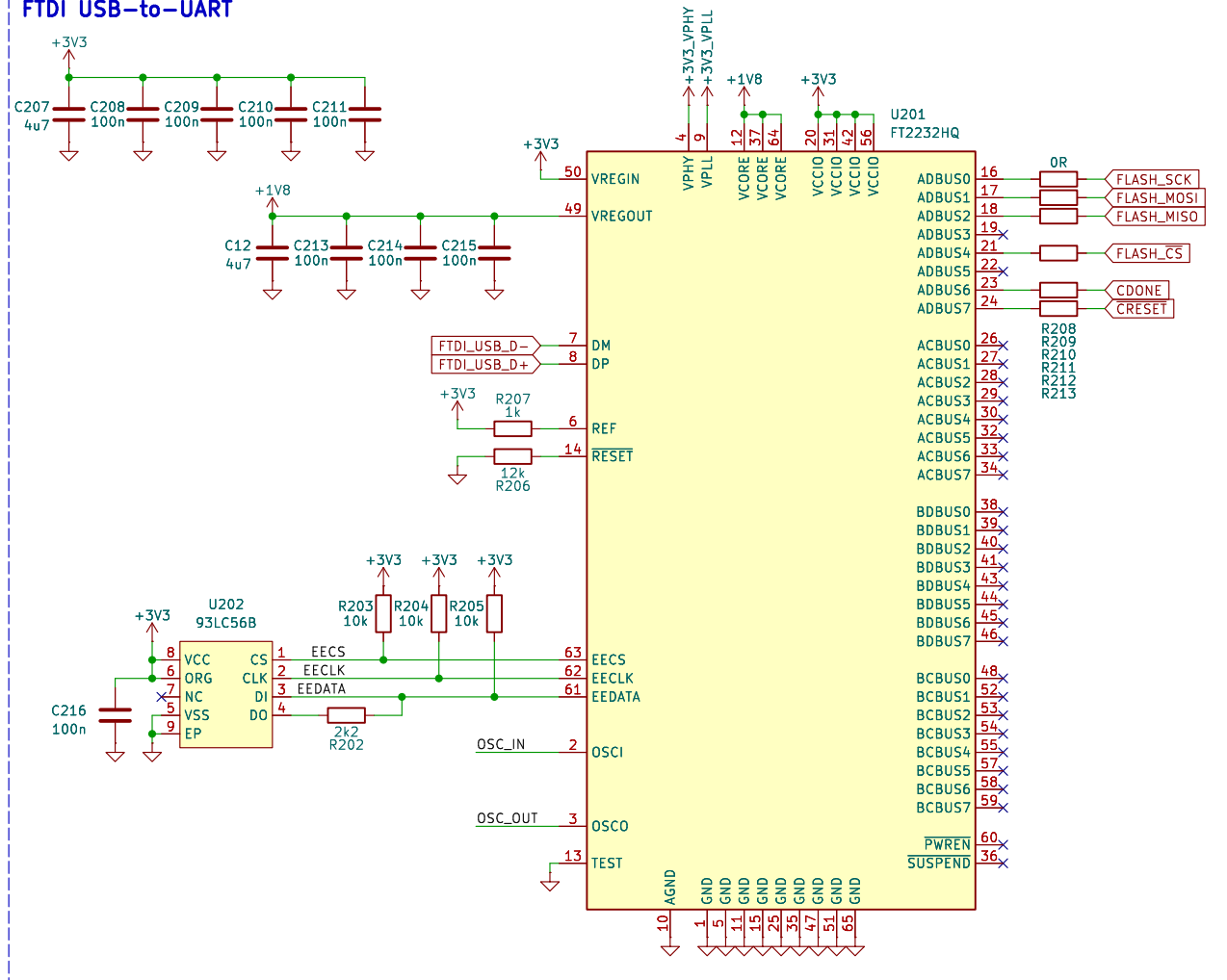
Ferrite beads must be rated at least for 600mA

Crystal



$(10\text{pF Load Capacitance} - 5\text{pF Stray Capacitance}) * 2 = 10\text{pF Load Capacitors}$

FTDI USB-to-UART



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Sheet: /FTDI/
File: ftdi.kicad_sch

Title: FTDI

Size: A4 Date: 2025-12-13

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Rev: 1.0

Id: 2/3