

# Root [0]

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

FTDI



File: ftdi.kicad\_sch

Programming

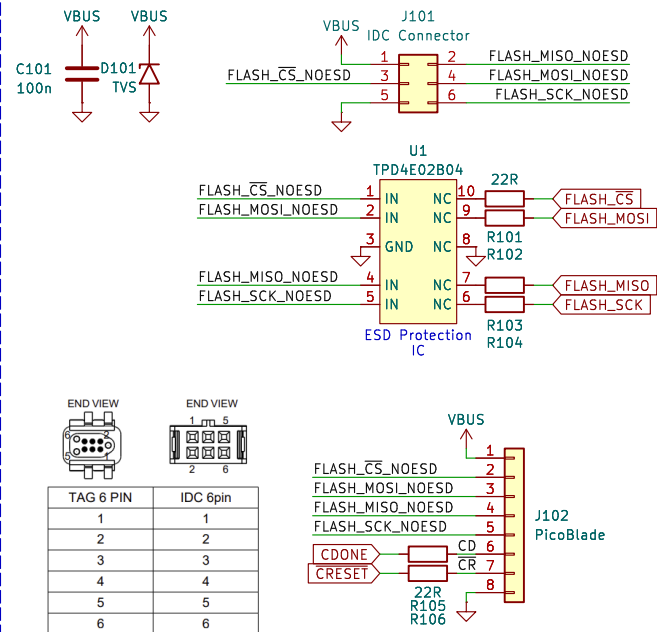


File: programming.kicad\_sch

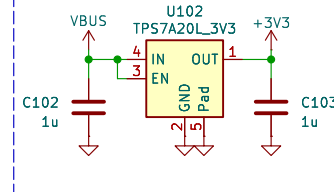
Czech Technical University in Prague		
Sheet: /		
File: Programmer_Board.kicad_sch		
Title: VoxSense Sensor Board Programmer – Root		
Size: A4	Date: 2025–12–09	Rev: 1.0
KiCad E.D.A. 9.0.4		Id: 0/3

# Programming Interfaces [1]

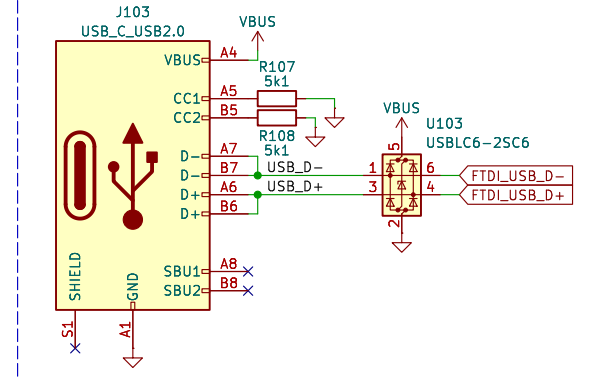
## Tag Connect Programming Interface



## 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

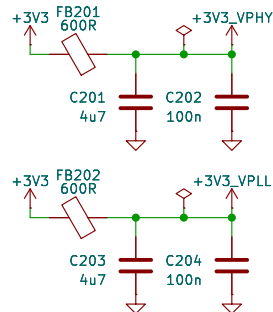
KiCad E.D.A. 9.0.4

**Rev: 1.0**

Id: 1/3

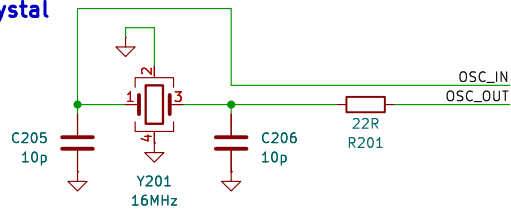
# FTDI [2]

## Filtering



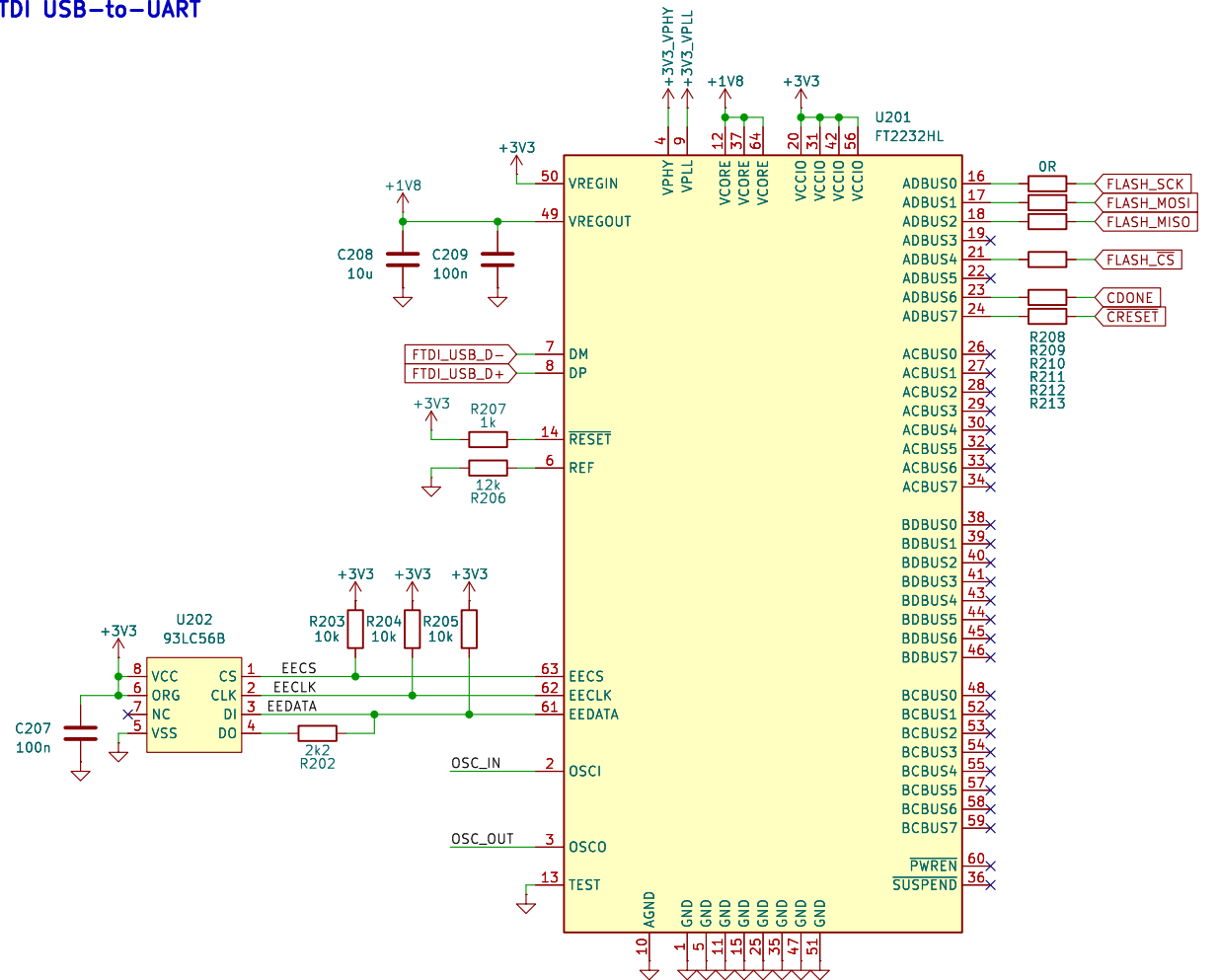
Ferrite beads must be rated at least for 600mA

## Crystal



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

## FTDI USB-to-UART



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Sheet: /FTDI/  
File: ftdi.kicad\_sch

Title: FTDI

Size: A4 Date: 2025-12-13

KiCad E.D.A. 9.0.4

Rev: 1.0

Id: 2/3