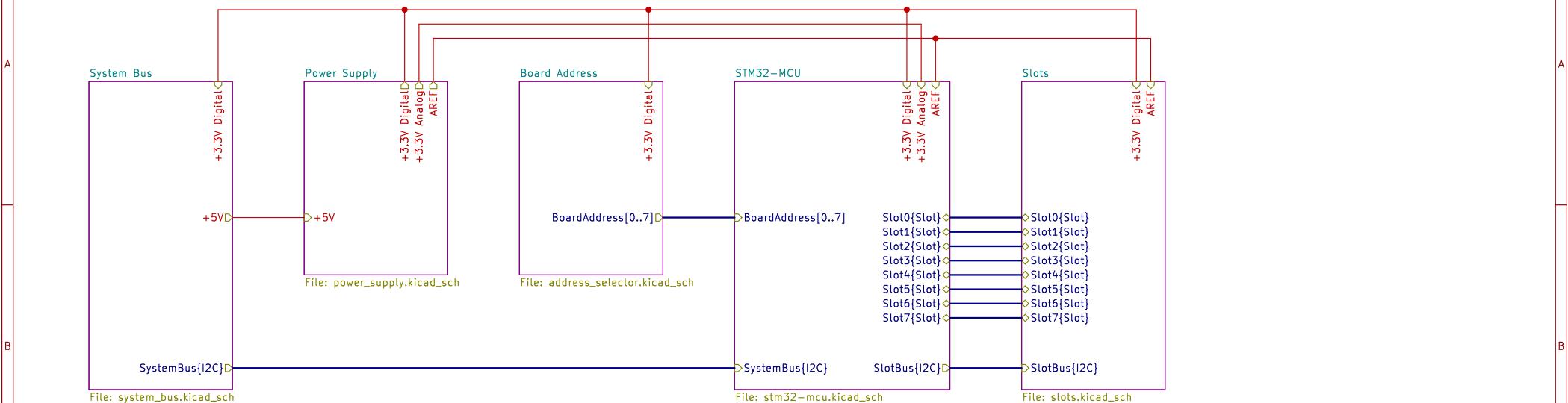


Sub-Board System Architecture



Dennis Schulmeister-Zimolong

Sheet: /  
File: Sub-Board.kicad\_sch

**Title: Modular Music Controller / Sub-Board / Architecture**

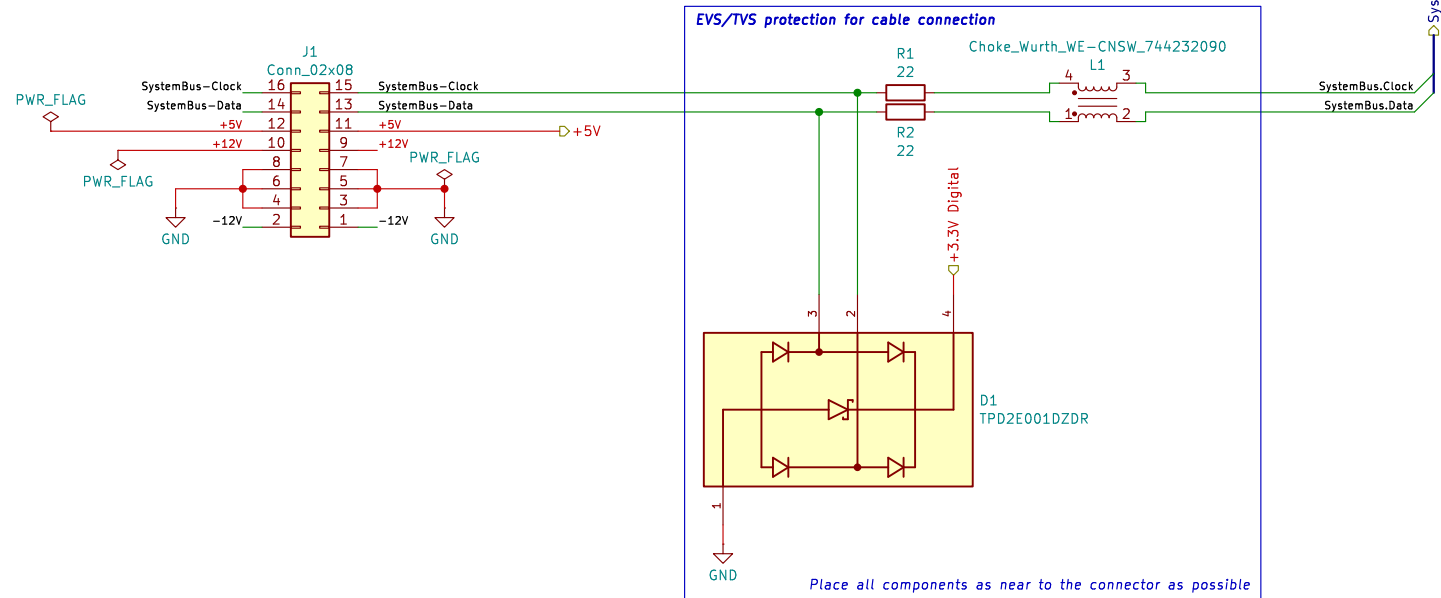
Size: A4	Date: 2025-11-01	Rev: 1
KiCad E.D.A. 9.0.5	Id: 1/6	

# System Bus

The system bus connector is just a 8x2 pin header compatible with the Eurorack/A-100 system bus.

The red marked line is the -12V line at the bottom.  
The slit of the tub plug is on the right.

GATE and CV on the Eurorack bus are used as SystemBus.Clock and Data.



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Sheet: /System Bus/  
File: system\_bus.kicad\_sch

**Title: Modular Music Controller / Sub-Board / System Bus**

Size: A4

Date: 2025-11-02

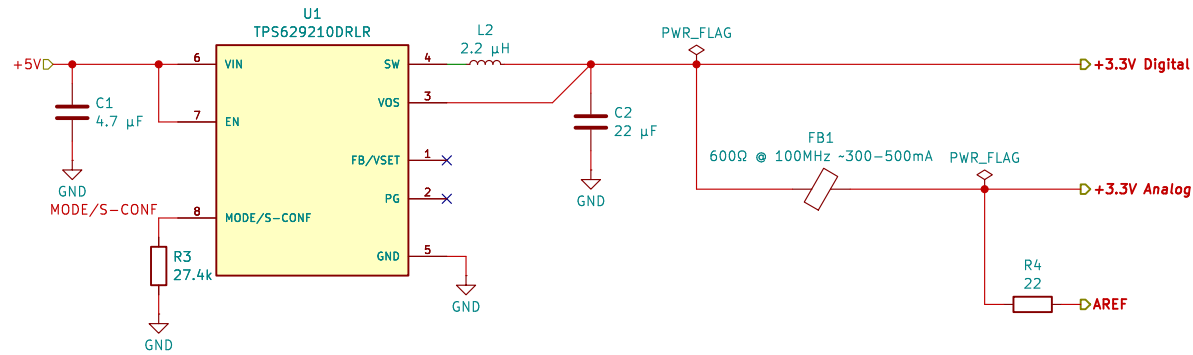
Rev: 1

KiCad E.D.A. 9.0.5

Id: 2/6

# Power Supply

MODE = 24.7 kOhm = VSET / AutoPWM  
FB/SET open = 3.3 V output



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Sheet: /Power Supply/  
File: power\_supply.kicad\_sch

**Title: Modular Music Controller / Sub-Board / Power Supply**

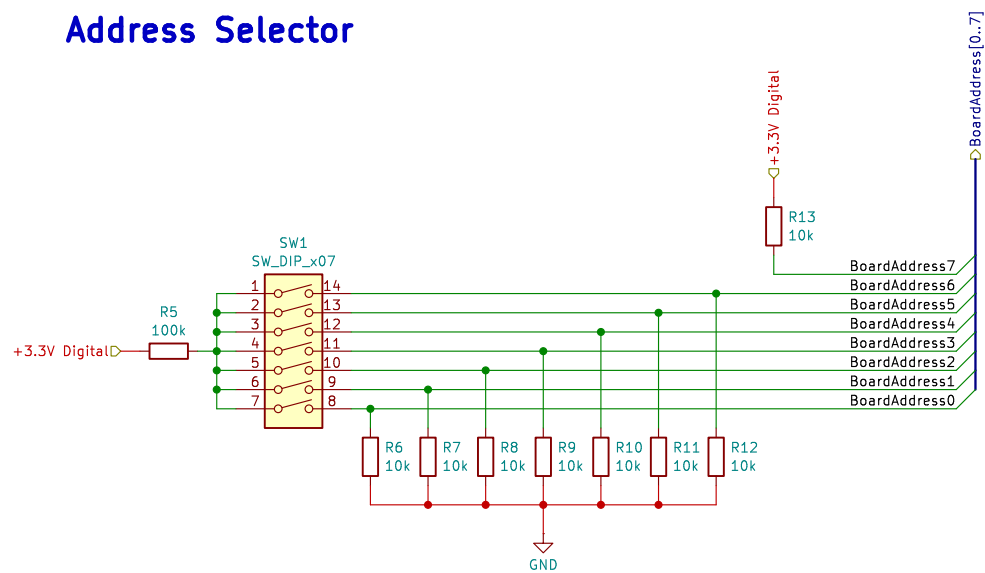
Size: A4 Date: 2025-11-02

KiCad E.D.A. 9.0.5

Rev: 1

Id: 3/6

# Address Selector



Dennis Schulmeister-Zimolong

Sheet: /Board Address/

File: address\_selector.kicad\_sch

**Title: Modular Music Controller / Sub-Board / Address Selector**

Size: A4

Date: 2025-11-02

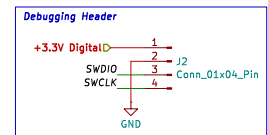
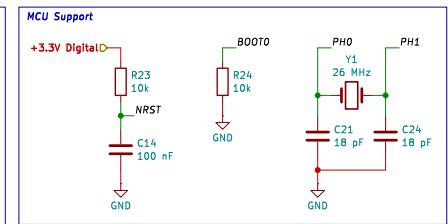
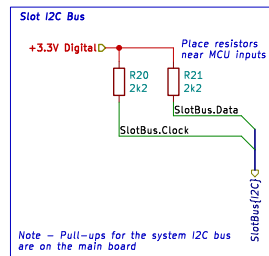
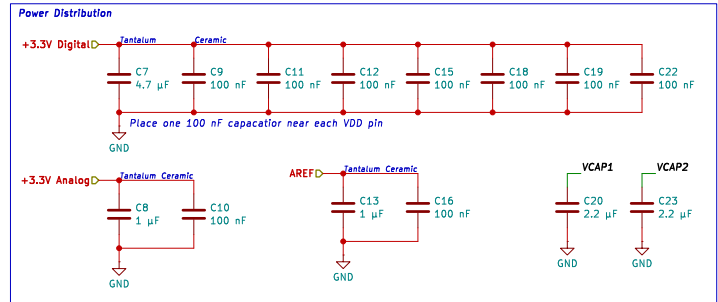
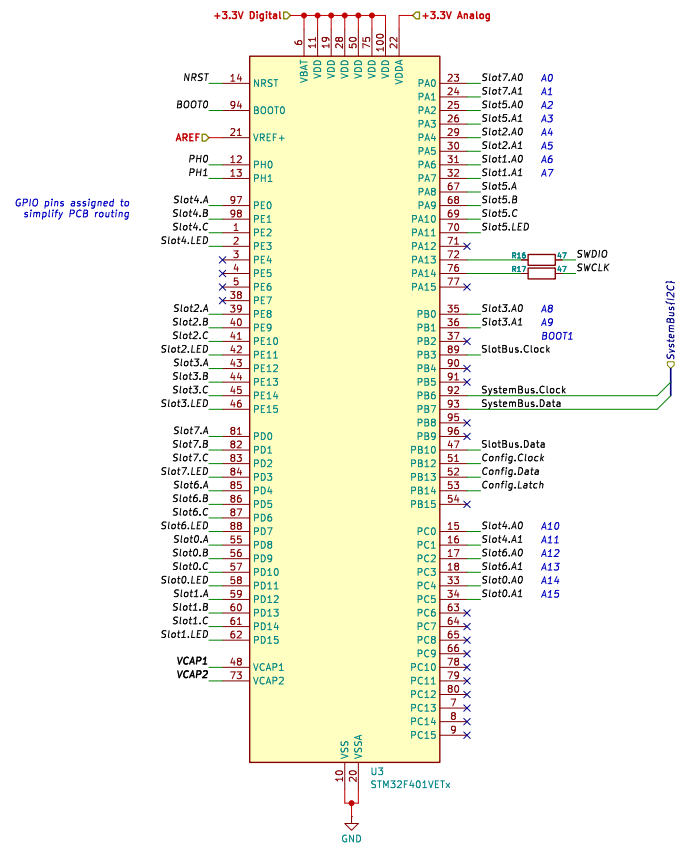
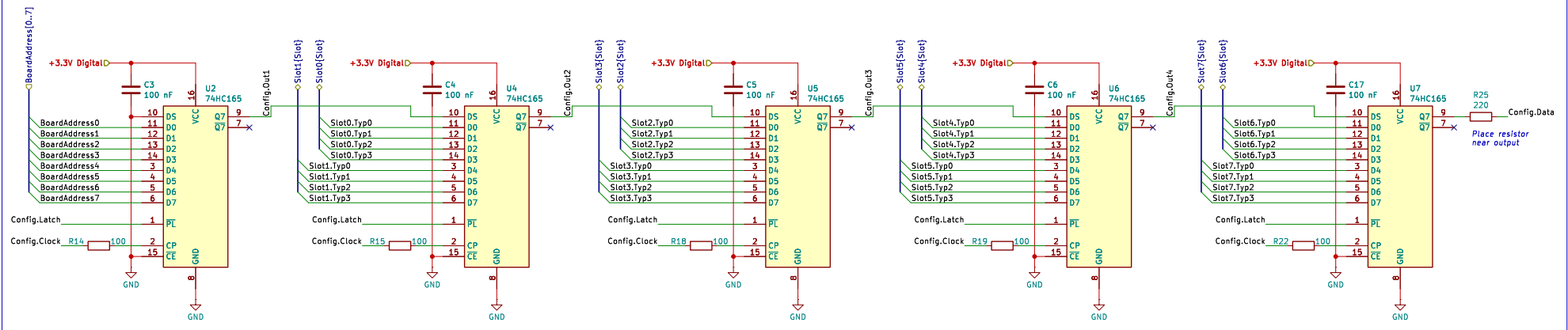
Rev: 1

KiCad E.D.A. 9.0.5

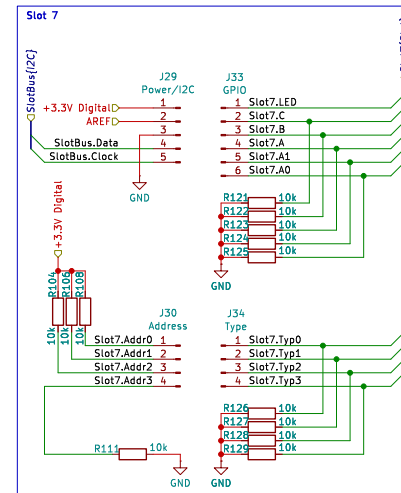
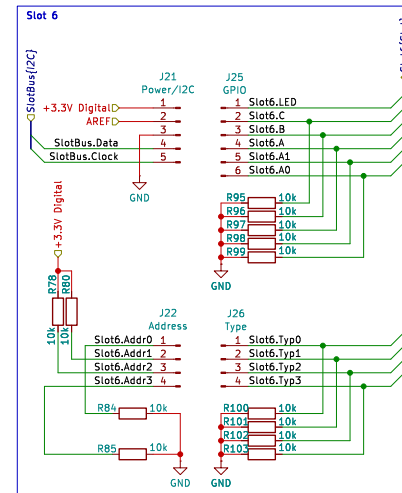
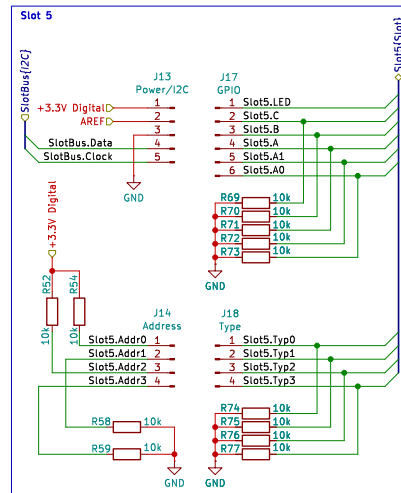
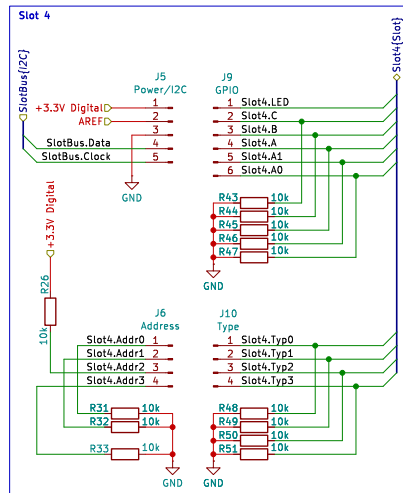
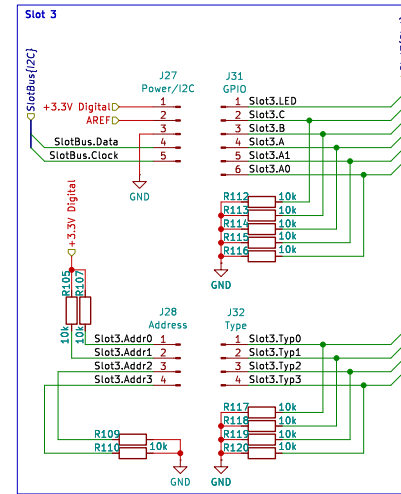
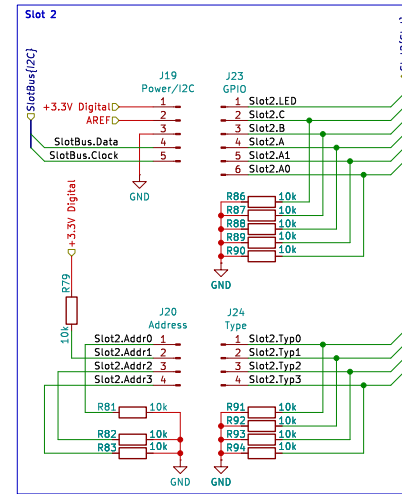
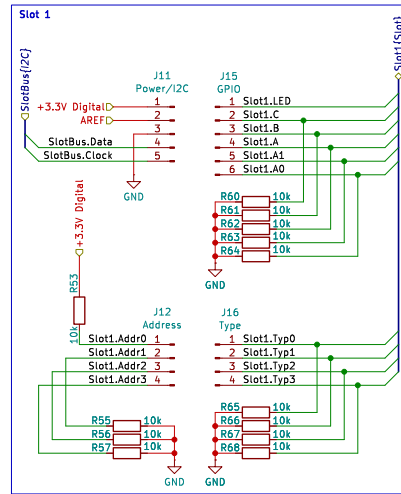
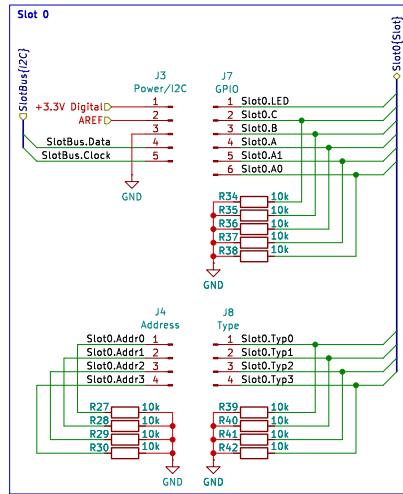
Id: 4/6

# STM32 Microcontroller for Controller Logic

Board Configuration



## Controller Slots



Dennis Schulmeister-Zimolung

Sheet: /Slots/  
File: slots.kicad\_sch

**Title: Modular Music Controller / Sub-Board / Controller Slots**

Size: A3 Date: 2025-11-06

Rev: 1

KiCad E.D.A. 9.0.5

Id: 6/6