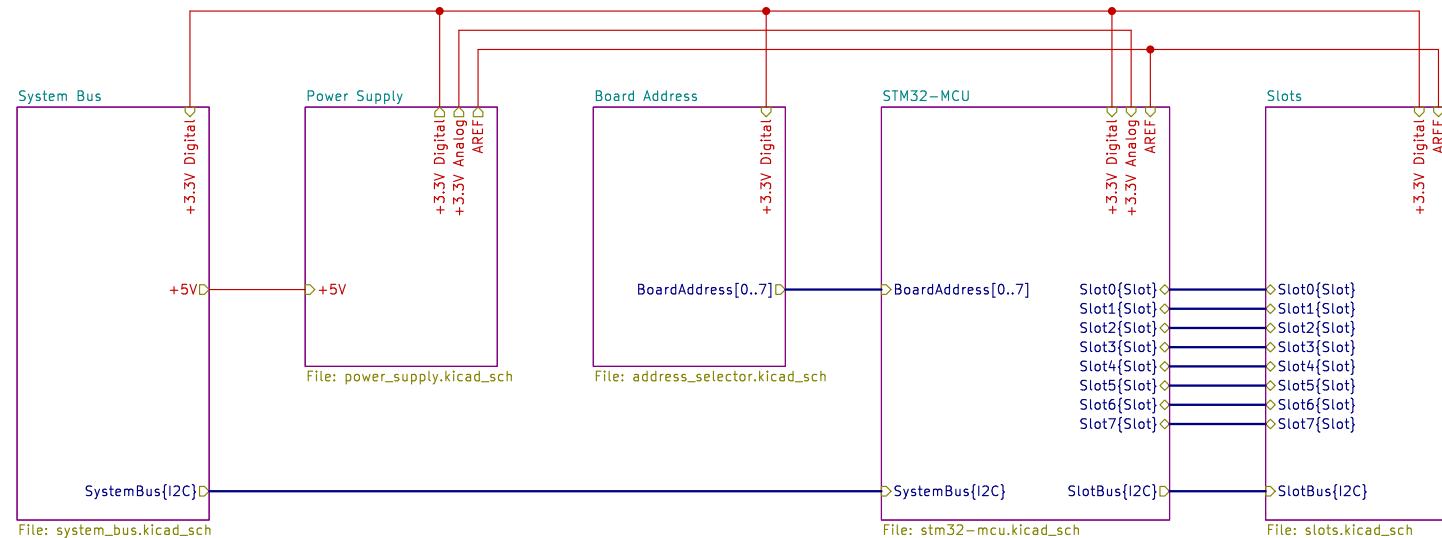


## Sub-Board System Architecture



Dennis Schulmeister-Zimolong

Sheet: /  
File: Sub-Board.kicad\_sch**Title: Modular Music Controller / Sub-Board / Architecture**

Size: A4 Date: 2025-12-02

KiCad E.D.A. 9.0.5

Rev: 2

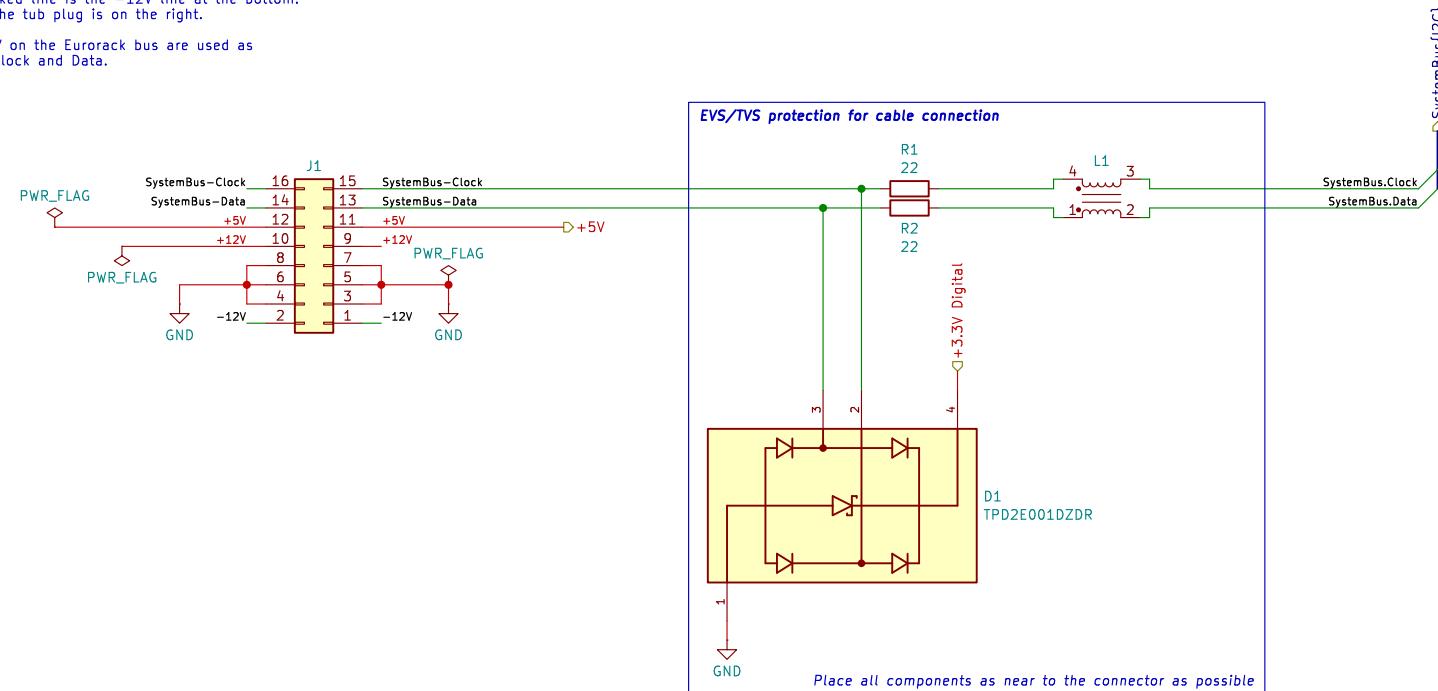
Id: 1/6

## 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.



Dennis Schulmeister-Zimolong

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

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

Size: A4 Date: 2025-12-02

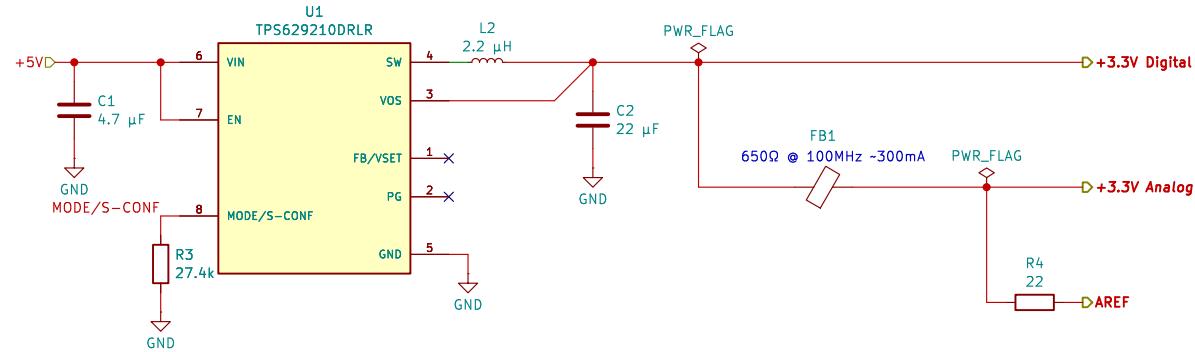
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Rev: 2

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**

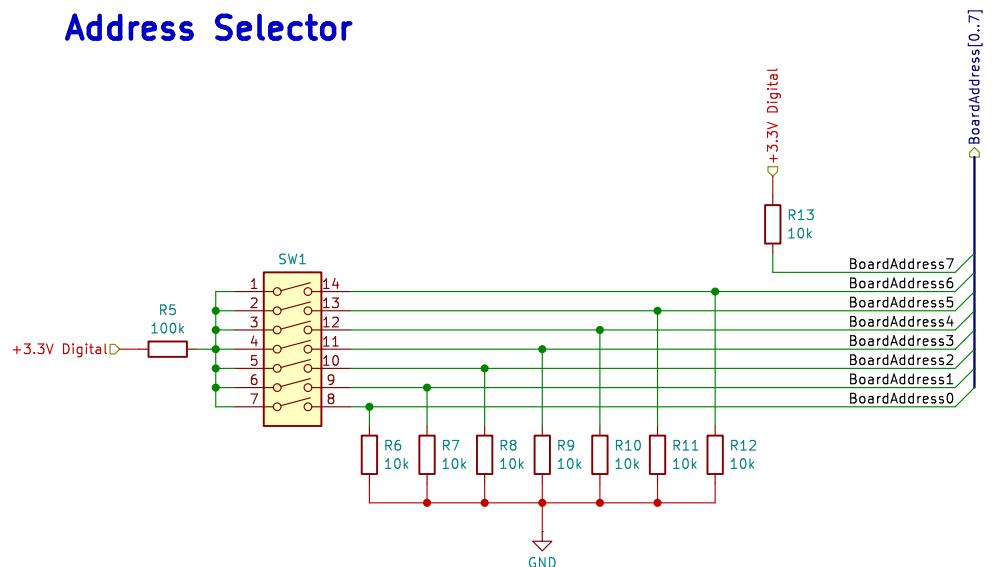
Size: A4 Date: 2025-12-02

KiCad E.D.A. 9.0.5

Rev: 2

Id: 3/6

## Address Selector



Dennis Schulmeister-Zimolong

Sheet: /Board Address/  
File: address\_selector.kicad\_sch

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

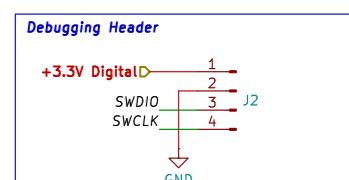
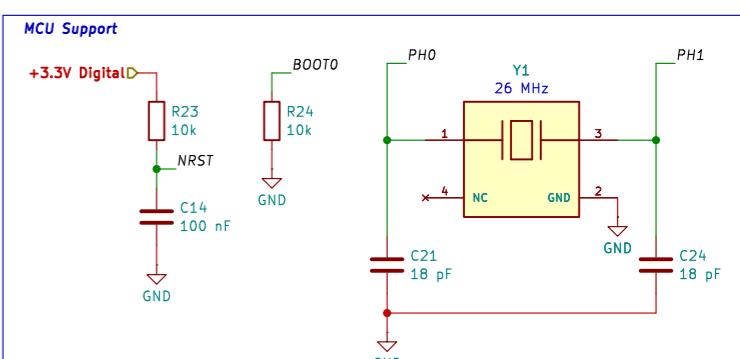
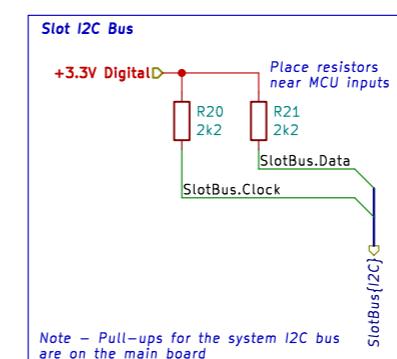
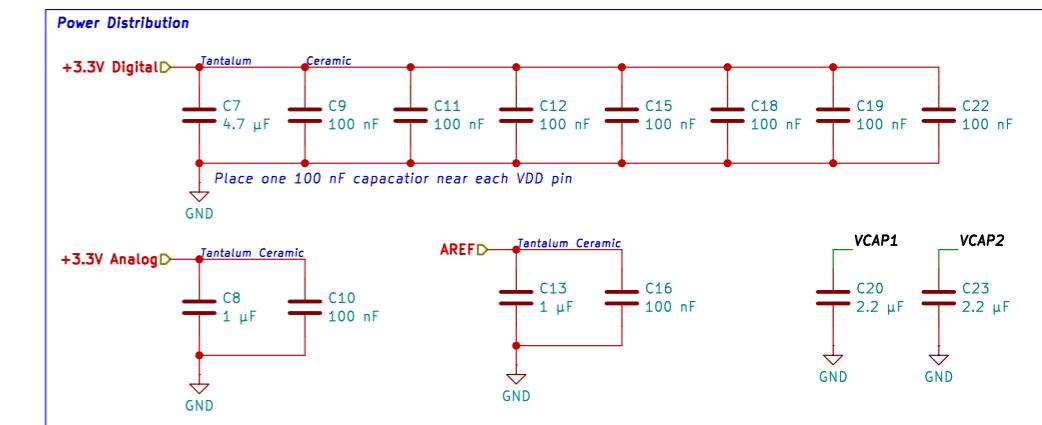
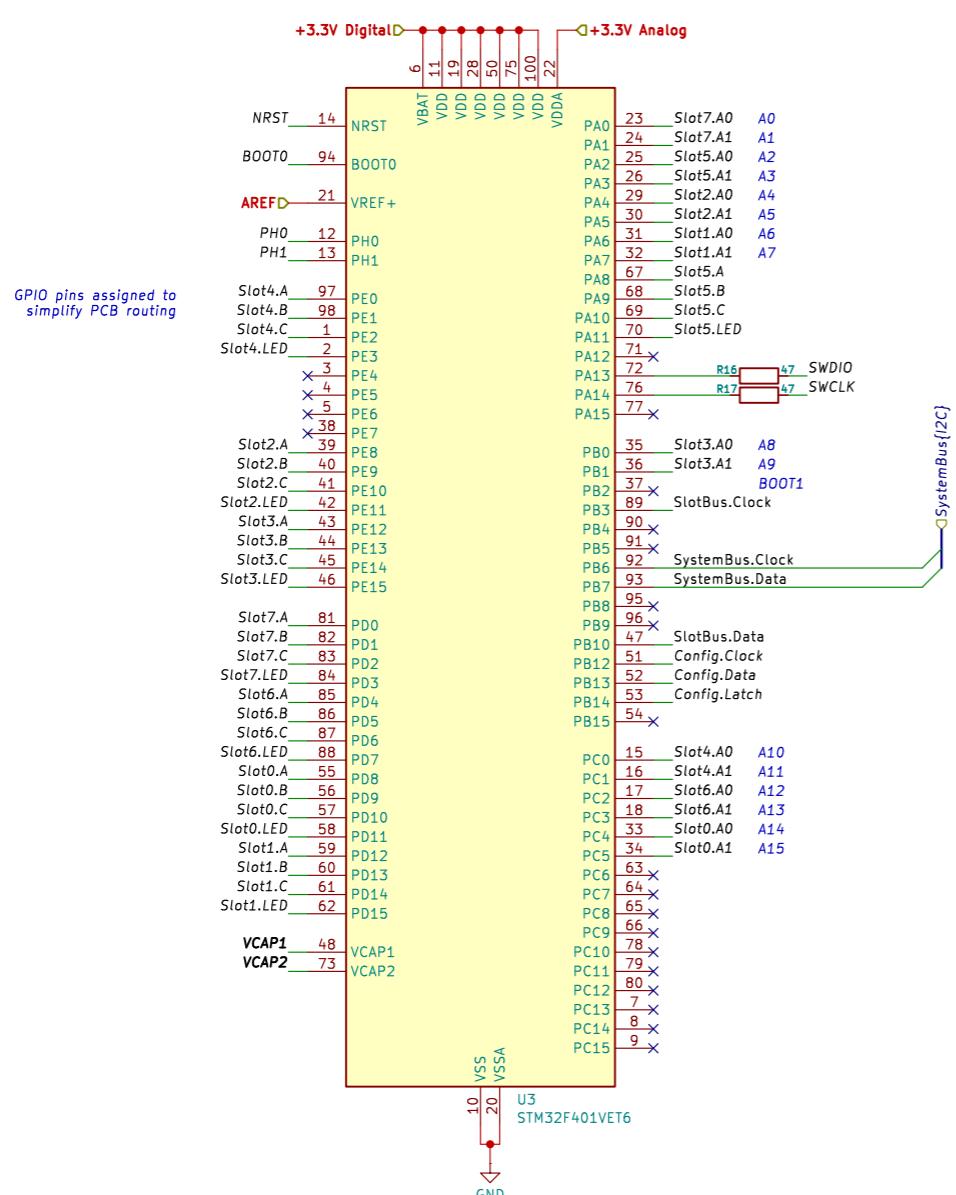
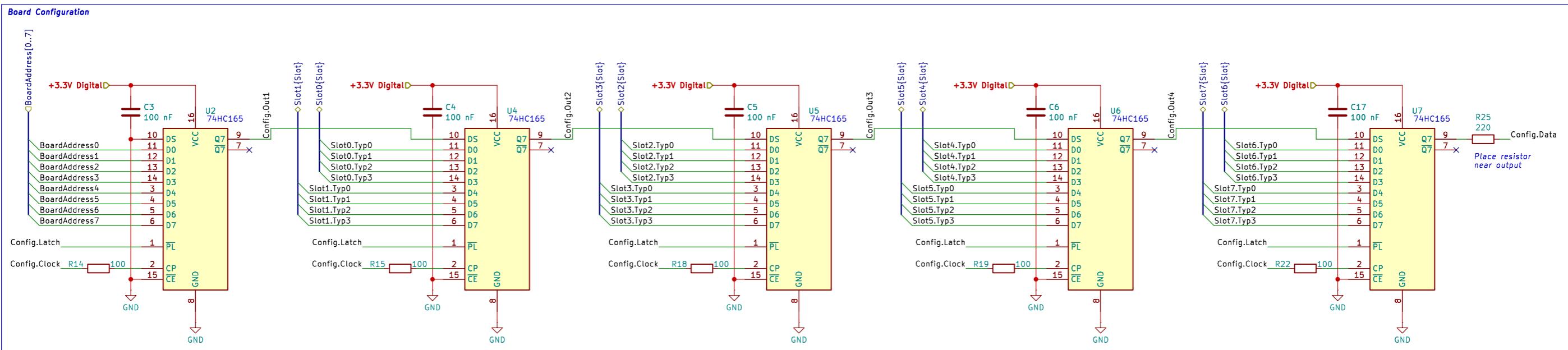
Size: A4 Date: 2025-12-02

KiCad E.D.A. 9.0.5

Rev: 2

Id: 4/6

# STM32 Microcontroller for Controller Logic



Dennis Schulmeister-Zimolong

Sheet: /STM32-MCU/

File: stm32-mcu.kicad\_sch

Title: Modular Music Controller / Sub-Board / STM32 MCU

Size: A3 Date: 2025-12-02

KiCad E.D.A. 9.0.5

Rev: 2

Id: 5/6

## Controller Slots



Dennis Schulmeister-Zimolong

Sheet: /Slots/

File: slots.kicad\_sch

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

Size: A3 Date: 2025-12-02

KiCad E.D.A. 9.0.5

Rev: 2

Id: 6/6