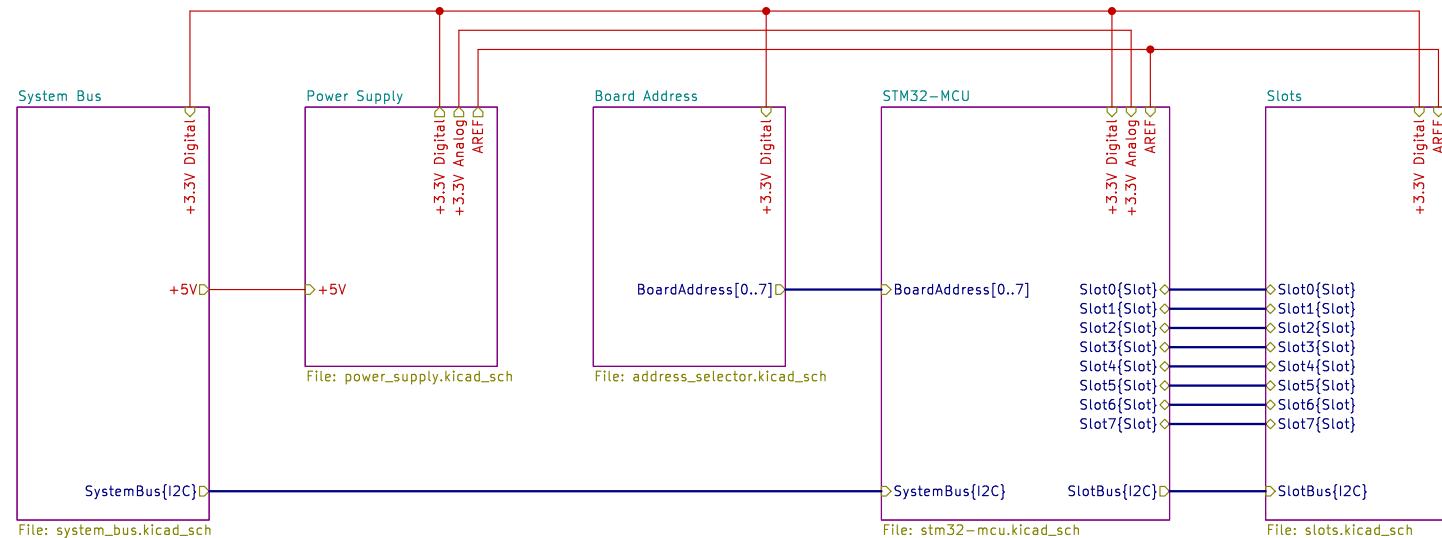


Sub-Board System Architecture



Dennis Schulmeister-Zimolong

Sheet: /
File: Sub-Board.kicad_sch

Title: Modular Music Controller / Sub-Board / Architecture

Size: A4 Date: 2025-11-01

KiCad E.D.A. 9.0.5

Rev: 1

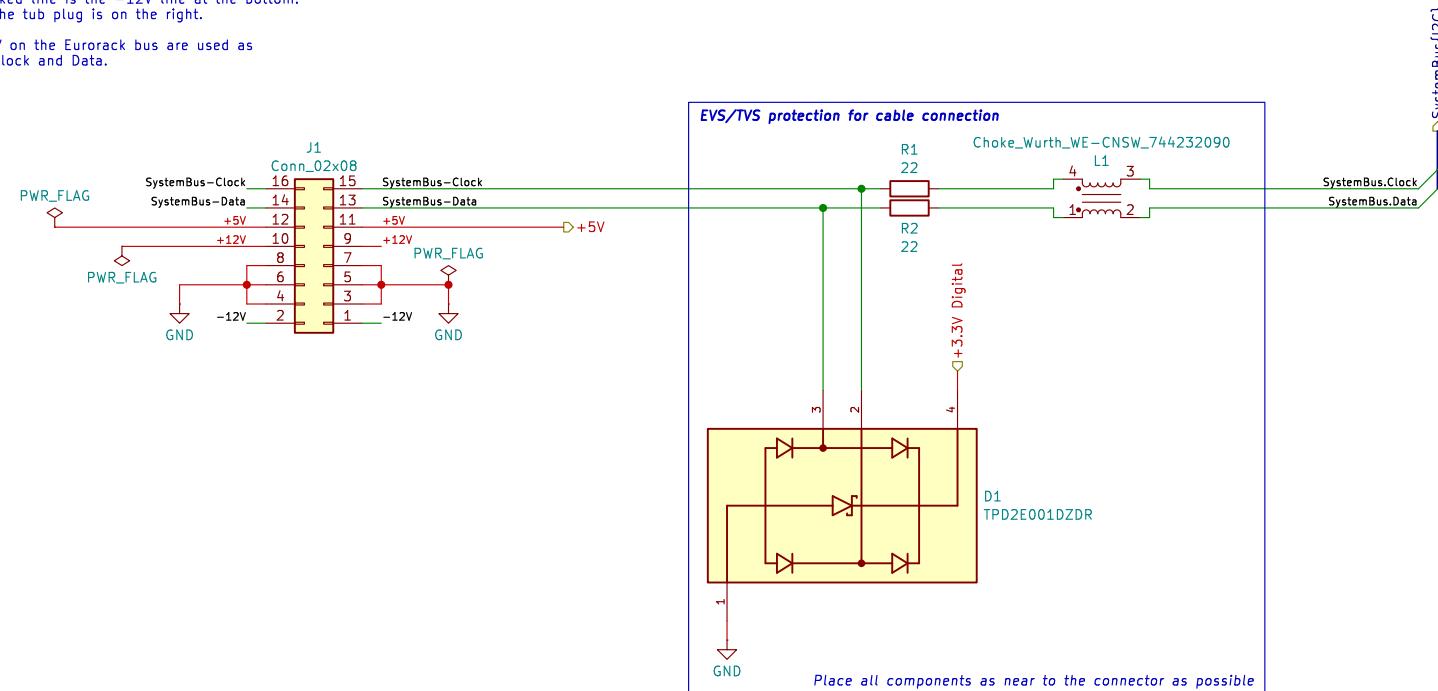
Id: 1/6

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: 2025-11-02

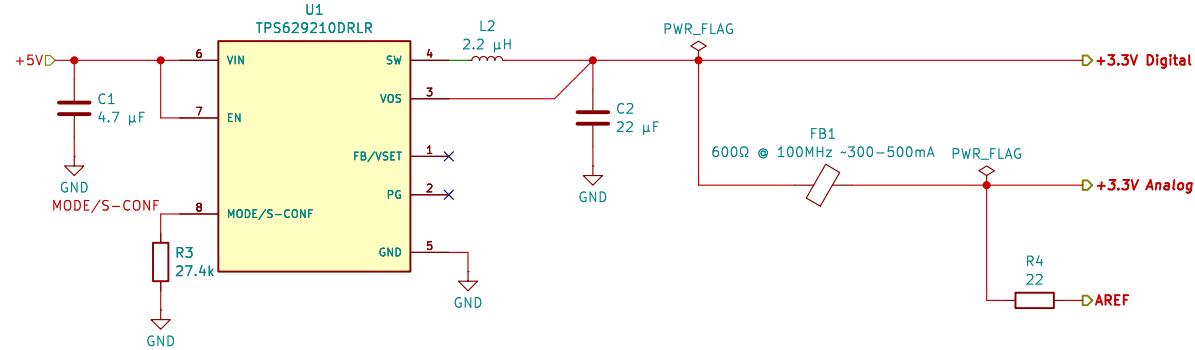
KiCad E.D.A. 9.0.5

Rev: 1

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

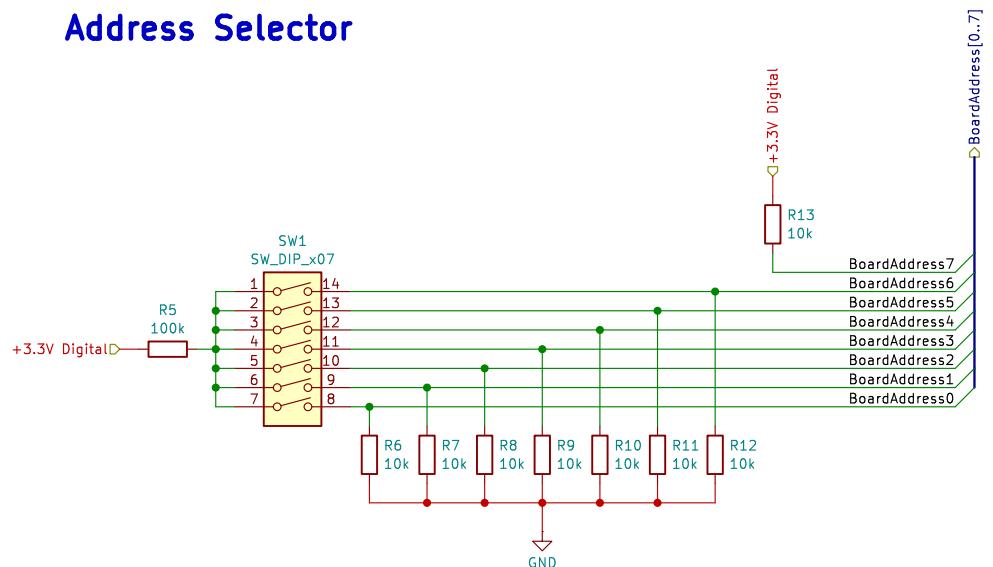
Size: A4 Date: 2025-11-02

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

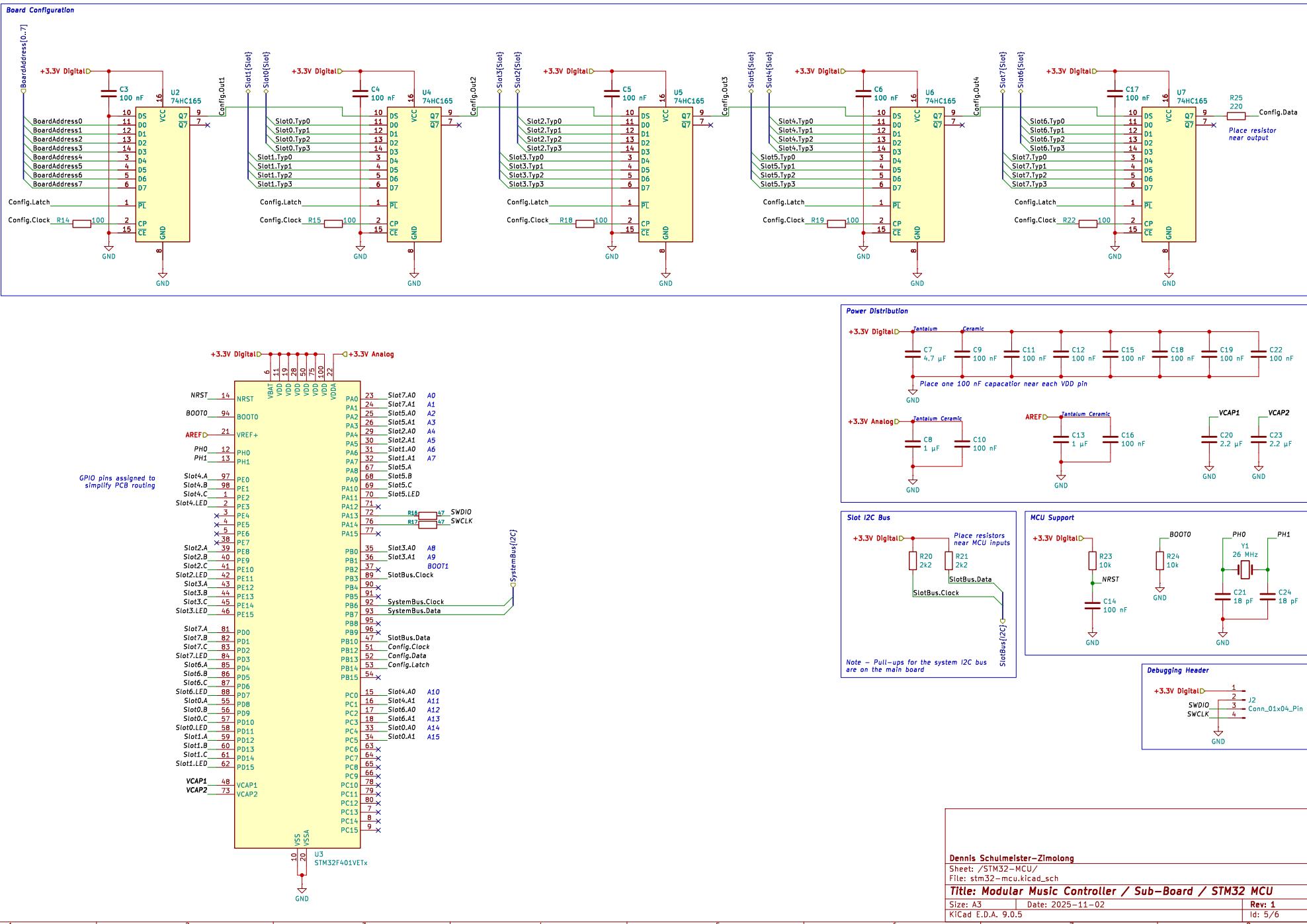
Size: A4 Date: 2025-11-02

KiCad E.D.A. 9.0.5

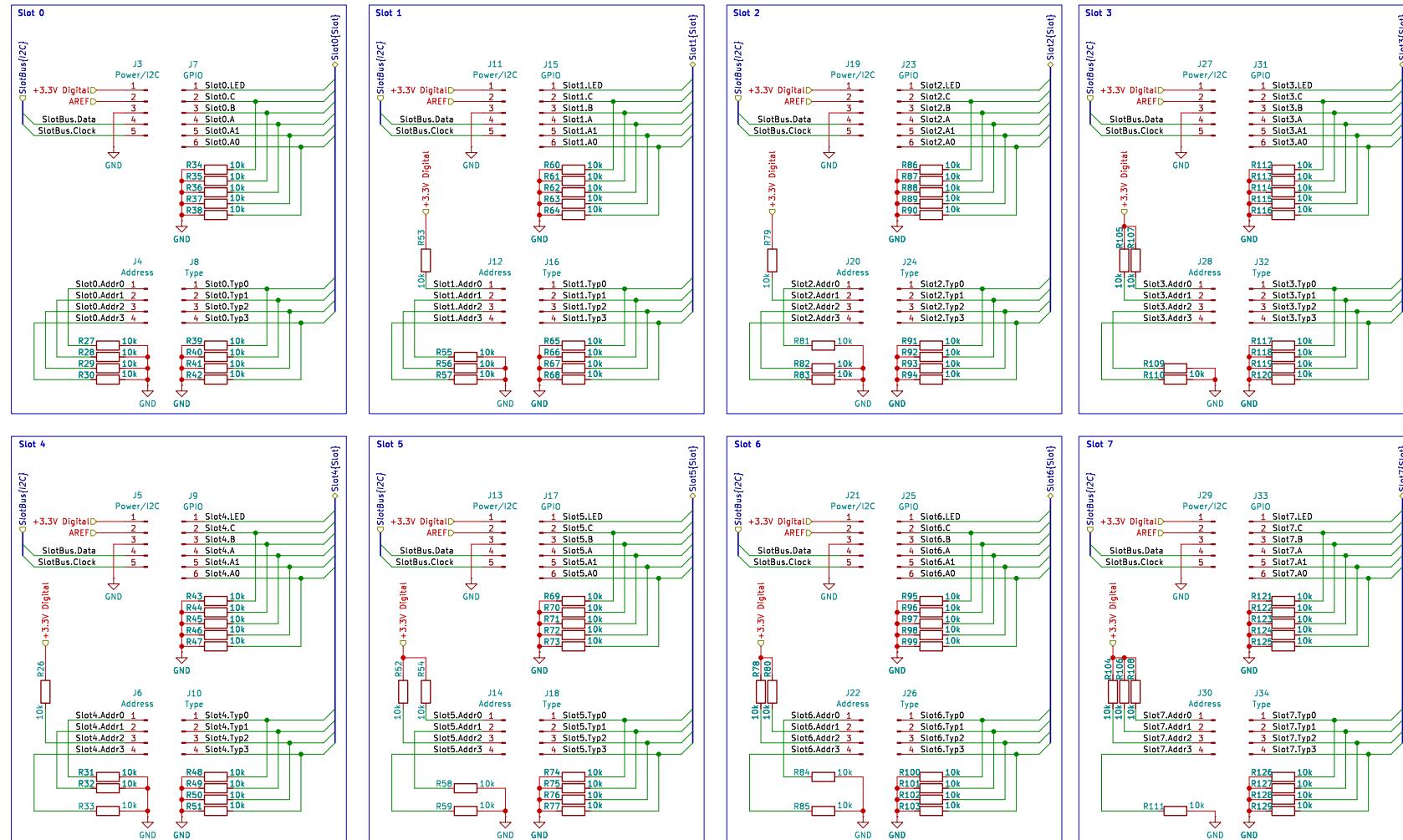
Rev: 1

Id: 4/6

STM32 Microcontroller for Controller Logic



Controller Slots



Dennis Schulmeister-Zimlong

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