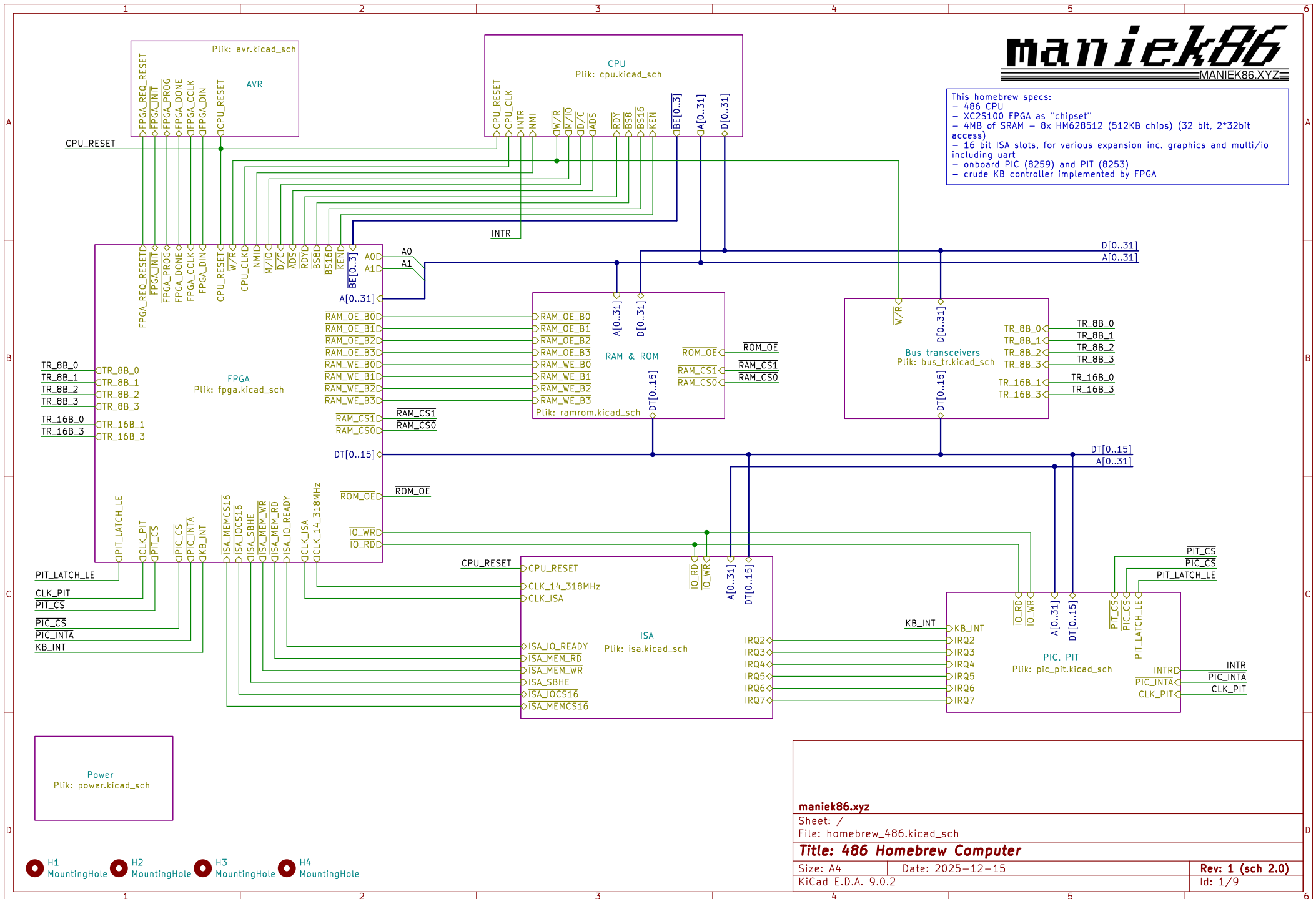


This homebrew specs:

- 486 CPU
- XC2S100 FPGA as "chipset"
- 4MB of SRAM - 8x HM628512 (512KB chips) (32 bit, 2*32bit access)
- 16 bit ISA slots, for various expansion inc. graphics and multi/io including uart
- onboard PIC (8259) and PIT (8253)
- crude KB controller implemented by FPGA



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Sheet: /
File: homebrew_486.kicad_sch

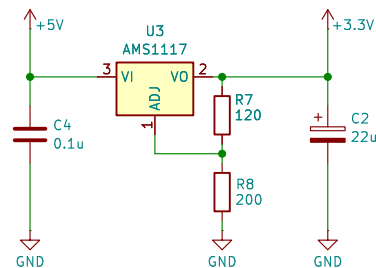
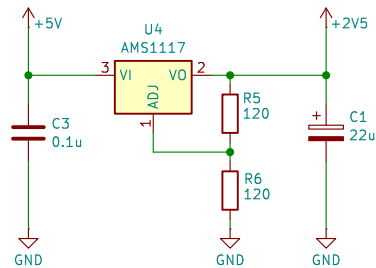
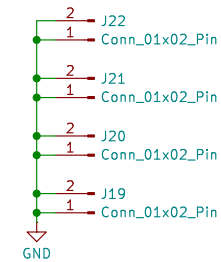
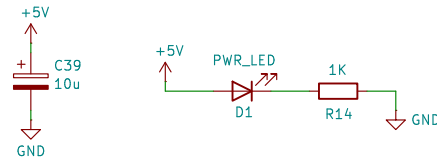
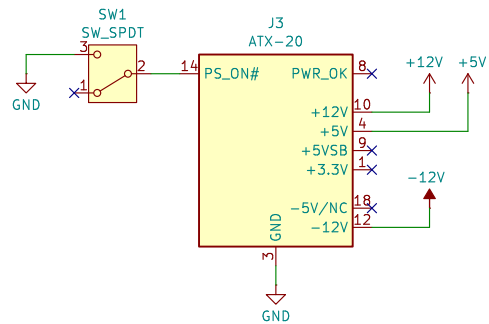
Title: 486 Homebrew Computer

Size: A4 Date: 2025-12-15

KiCad E.D.A. 9.0.2

Rev: 1 (sch 2.0)

Id: 1/9



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Sheet: /Power/
File: power.kicad_sch

Title: 486 Homebrew Computer

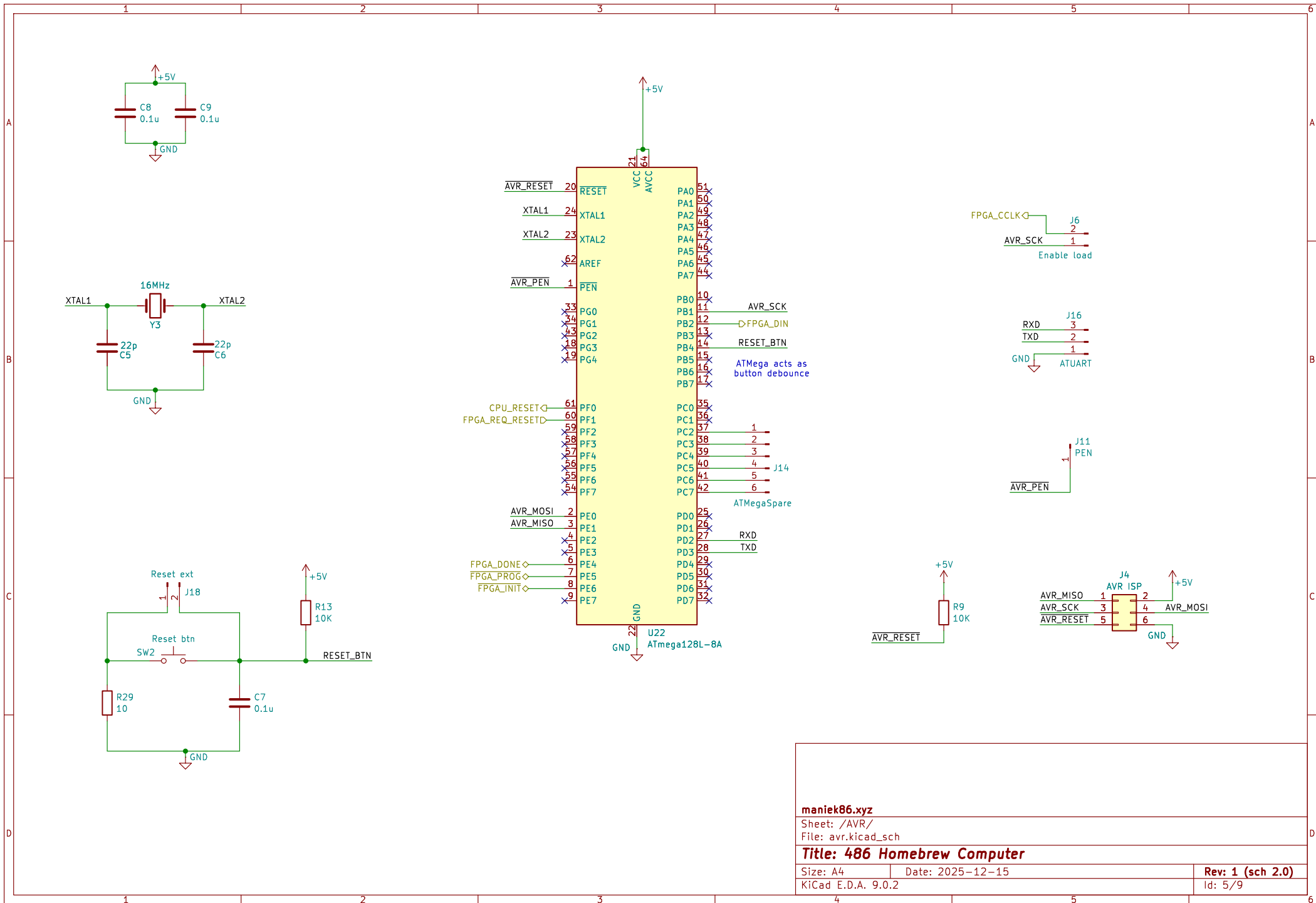
Size: A4 Date: 2025-12-15

KiCad E.D.A. 9.0.2

Rev: 1 (sch 2.0)

Id: 2/9





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Sheet: /AVR/
File: avr.kicad_sch

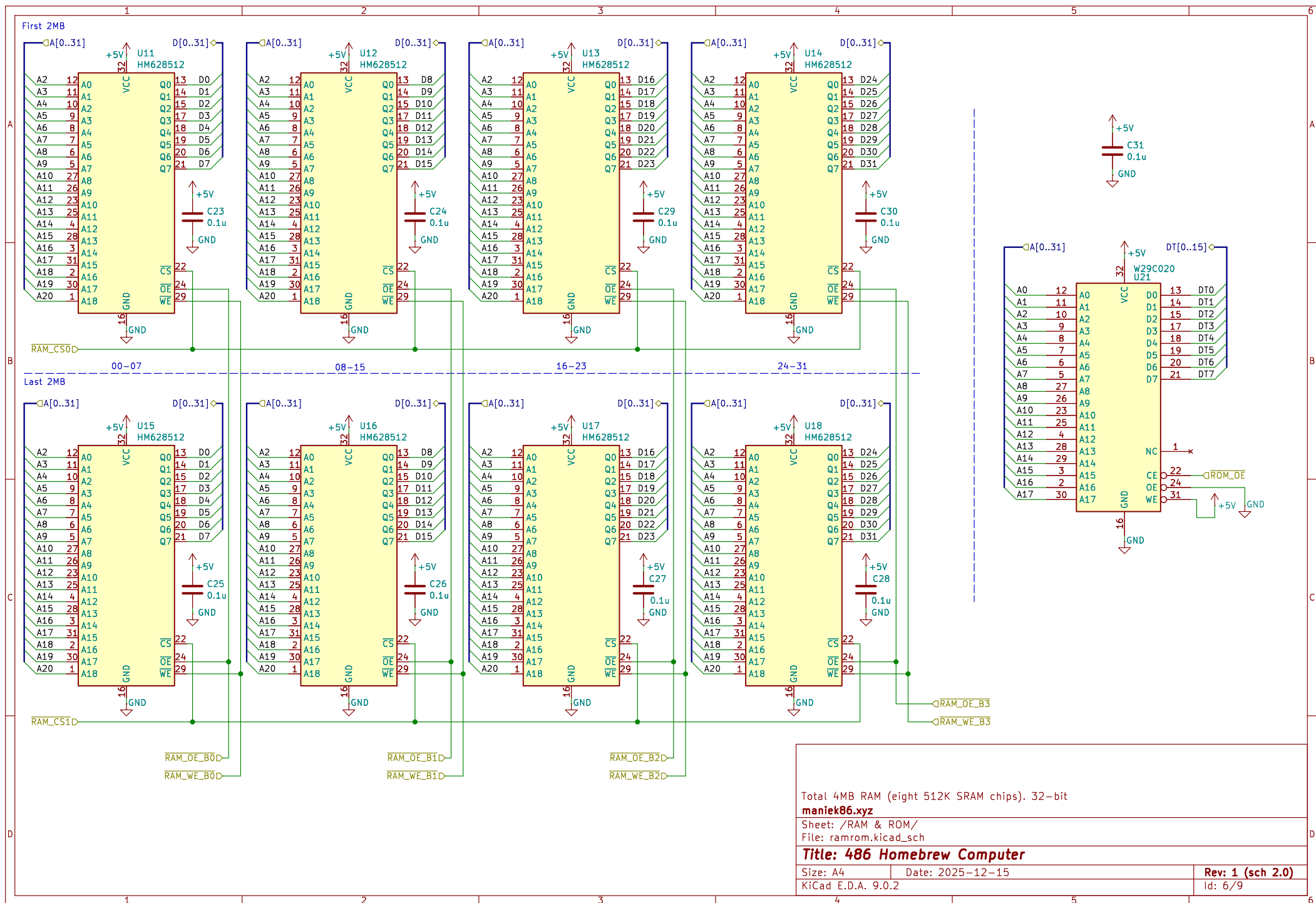
Title: 486 Homebrew Computer

Size: A4 Date: 2025-12-15

KiCad E.D.A. 9.0.2

Rev: 1 (sch 2.0)

Id: 5/9



Total 4MB RAM (eight 512K SRAM chips). 32-bit
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Sheet: /RAM & ROM/

File: ramrom.kicad_sch

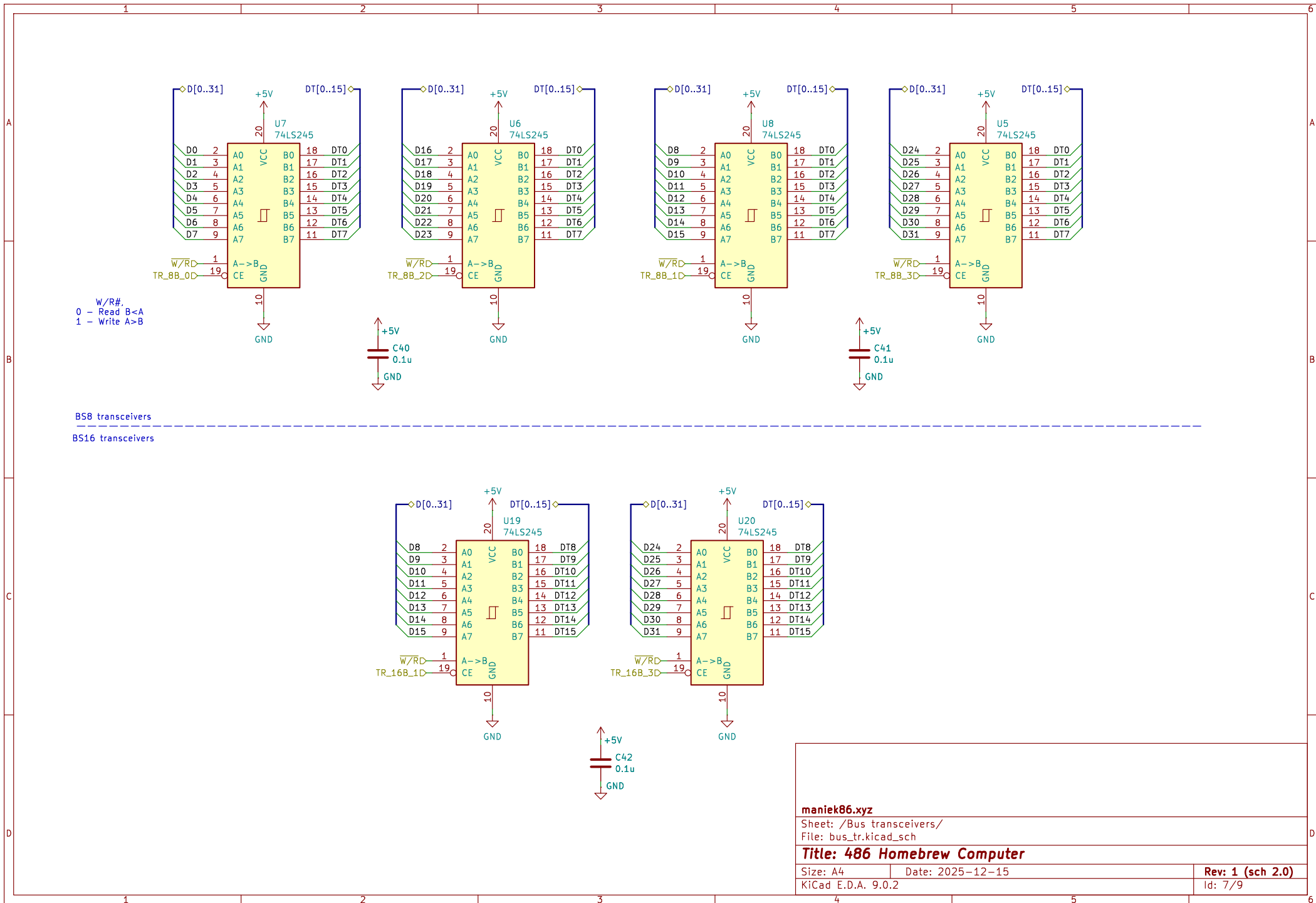
Title: 486 Homebrew Computer

Size: A4 Date: 2025-12-15

KiCad E.D.A. 9.0.2

Rev: 1 (sch 2.0)

Id: 6/9



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Sheet: /Bus transceivers/
File: bus_tr.kicad_sch

Title: 486 Homebrew Computer

Size: A4 | Date: 2025-12-15

KiCad E.D.A. 9.0.2

Rev: 1 (sch 2.0)

Id: 7/9

