

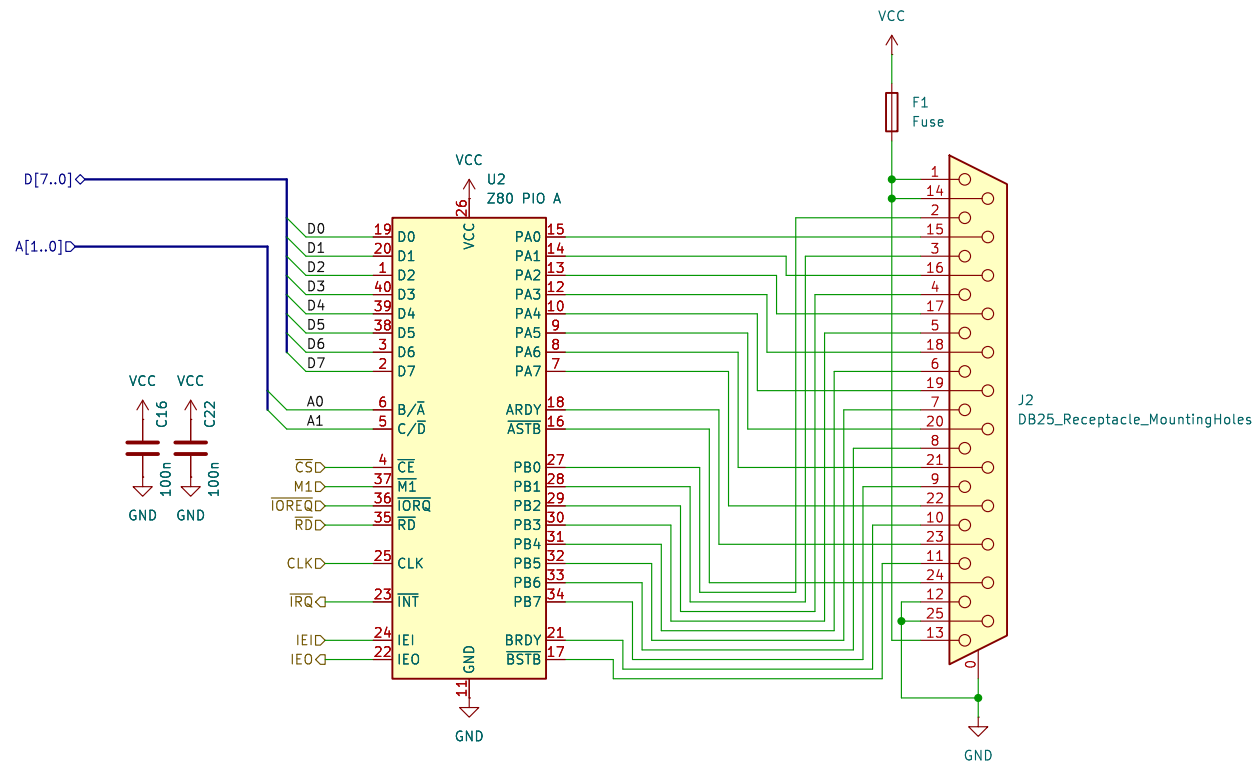
A.K.

Sheet: /
File: zak181.kicad_sch

Title: ZAK181 Single Board Computer

Size: A4 Date: 2025-06-18
KiCad E.D.A. 9.0.1

Rev: A
Id: 1/11



A.K.

Sheet: /pio/
File: pio.kicad_sch

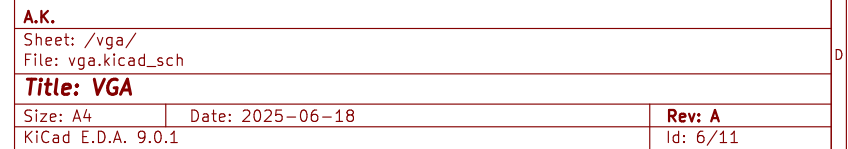
Title: User port

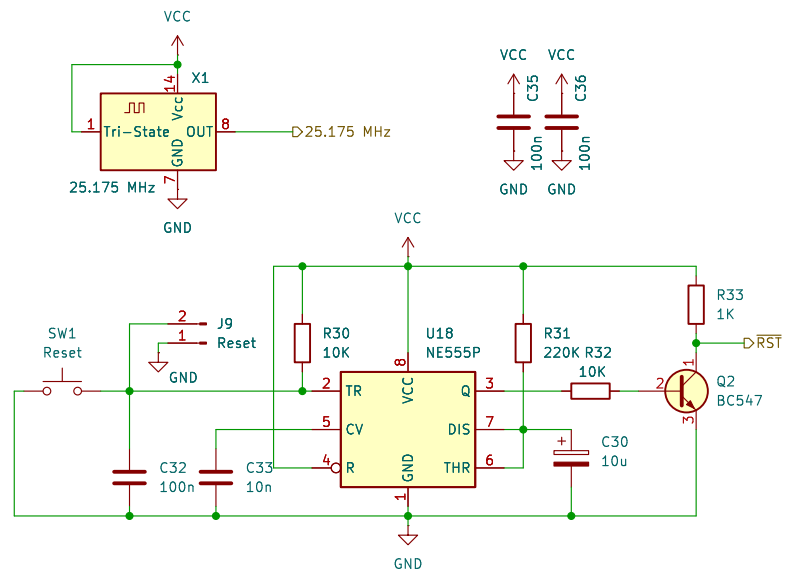
Size: A4 Date: 2025-06-18

KiCad E.D.A. 9.0.1

Rev: A

Id: 5/11





A.K.

Sheet: /clock/
File: clock.kicad_sch

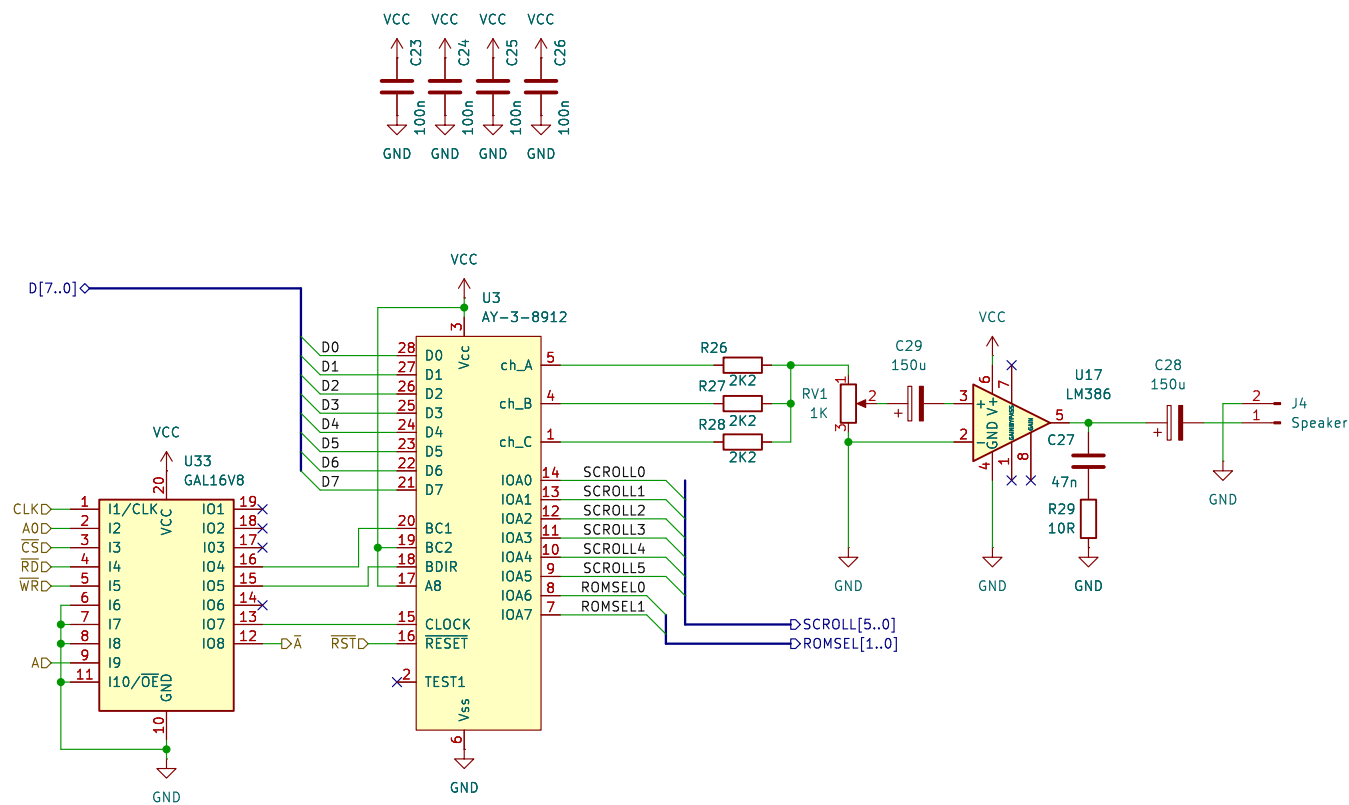
Title: Clock and reset

Size: A4 Date: 2025-06-18

KiCad E.D.A. 9.0.1

Rev: A

Id: 7/11



```

bdir = !((wr | cs)
bcl = !(!a0 | cs | (rd & wr))

```

cs	rd	wr	A0	BDIR	BC1
0	0	1	0	0	1 - READ
0	0	1	1	0	0 - INACTIVE
0	1	0	0	1	1 - LATCH
0	1	0	1	1	0 - WRITE

A.K.

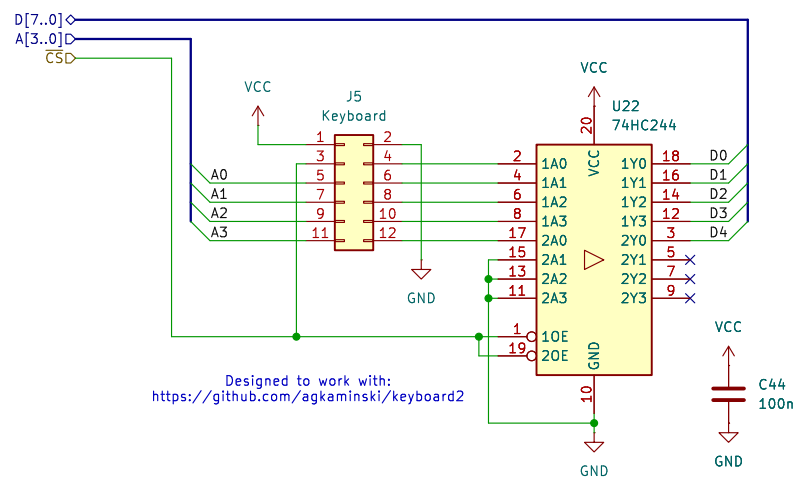
Sheet: /sound/
File: sound.kicad_sch

Title: Sound

Size: A4
KiCad E.D.A. 9.0.1

Date: 2025-06-18

Rev: A
Id: 7/11



A.K.

Sheet: /keyboard/
 File: keyboard.kicad_sch

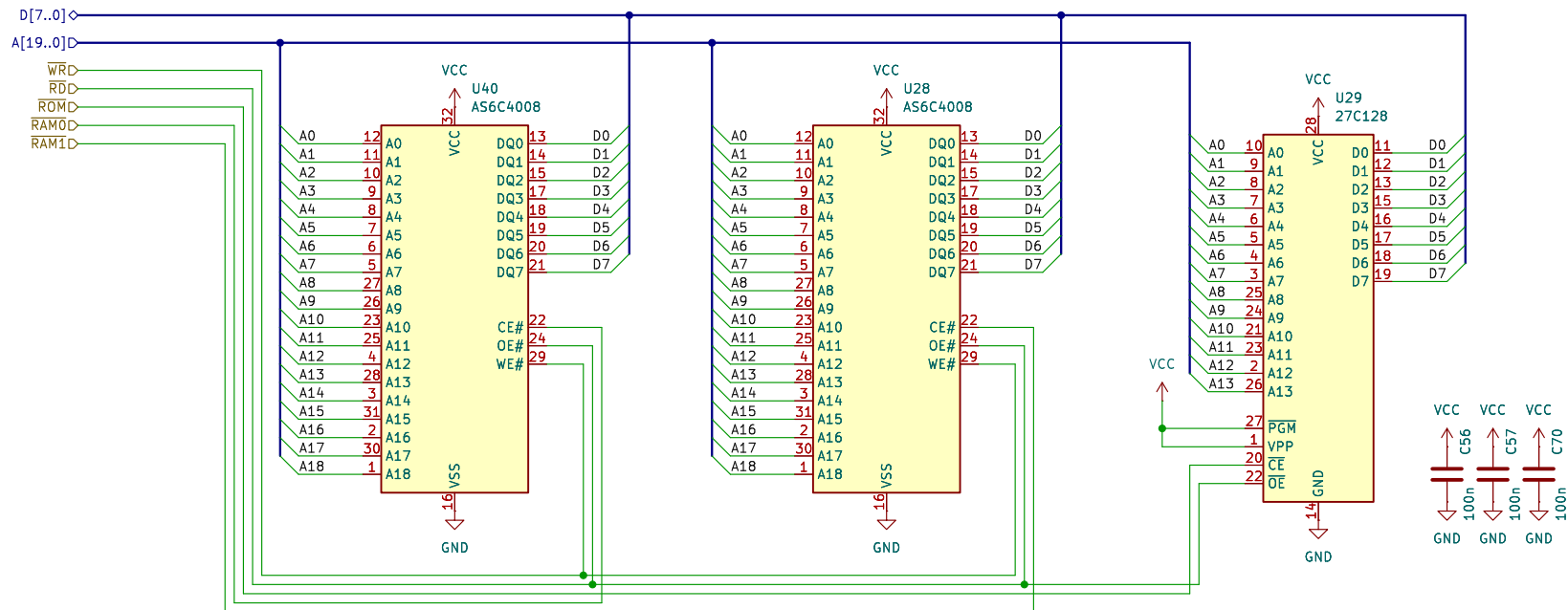
Title: Keyboard

Size: A4 Date: 2025-06-18

KiCad E.D.A. 9.0.1

Rev: A

Id: 8/11



A.K.

Sheet: /memory/

File: memory.kicad_sch

Title: Memory

Size: A4

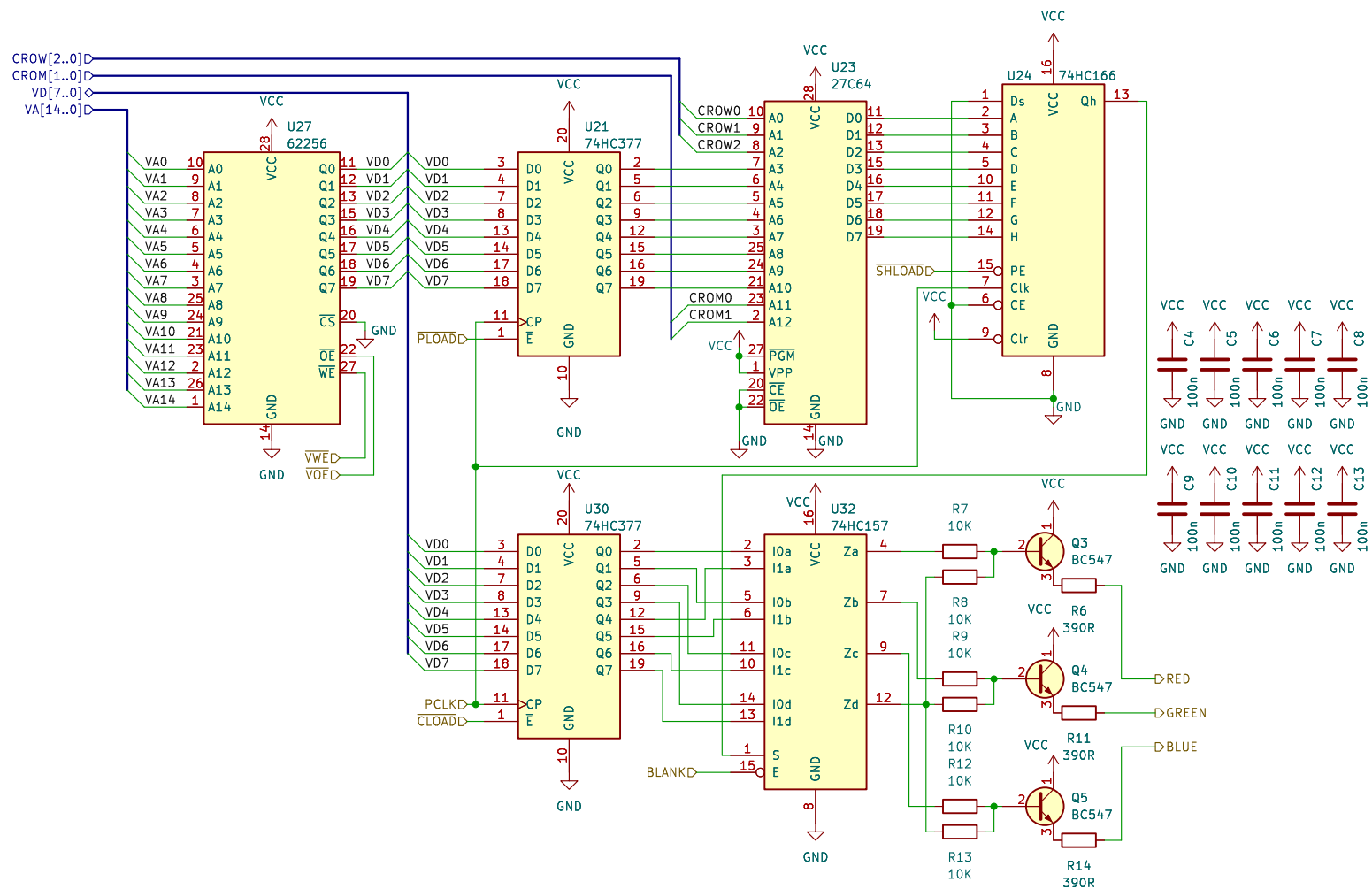
Date: 2025-06-18

KiCad E.D.A. 9.0.1

Rev: A

Id: 10/11

Id: 12/11



A.K.

Sheet: /vga/vga_datapath/
File: vga_datapath.kicad_sch

Title: VGA datapath

Size: A4 Date: 2025-06-18

KiCad E.D.A. 9.0.1

Rev: A

Id: 11/11