

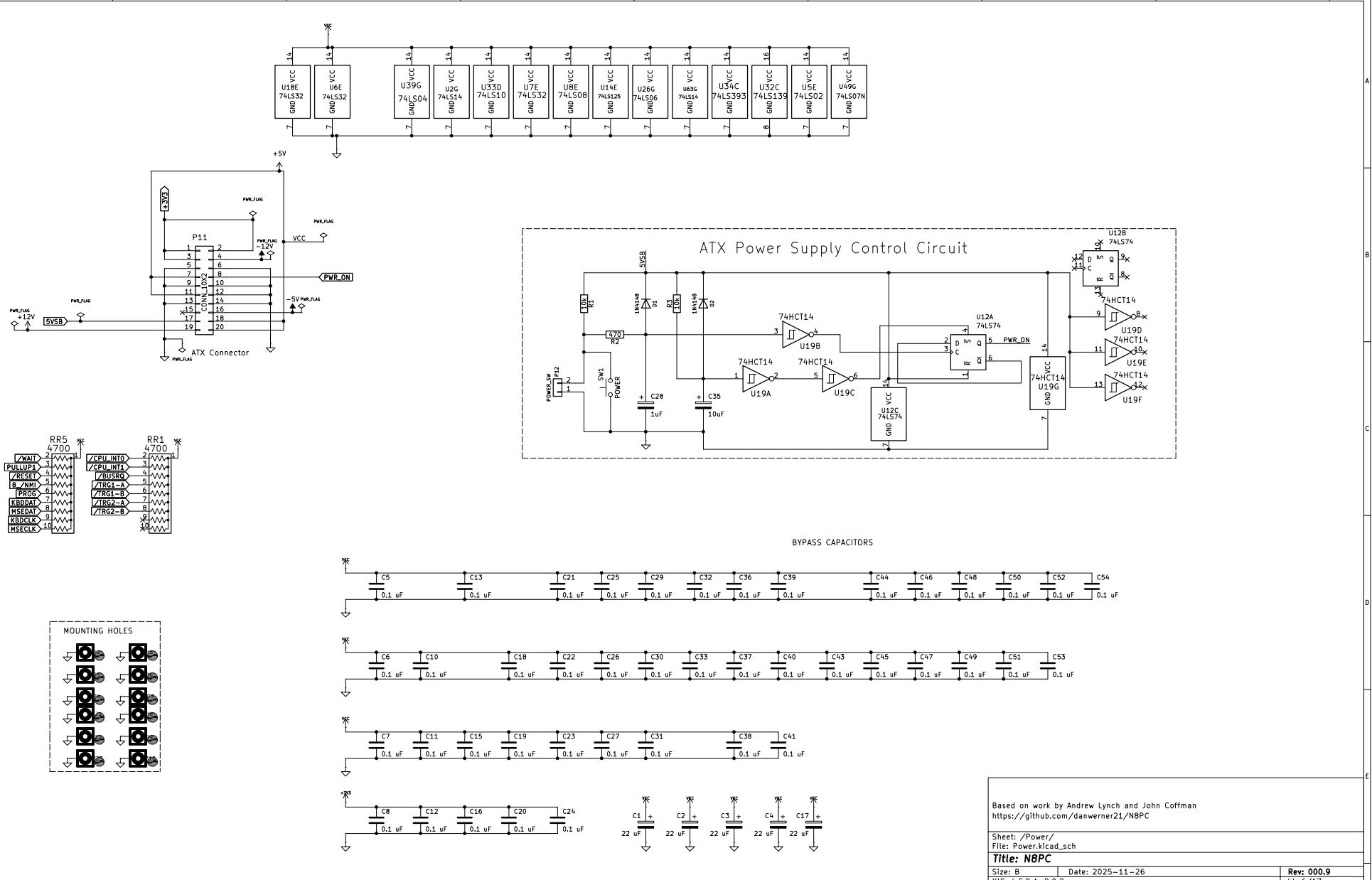
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

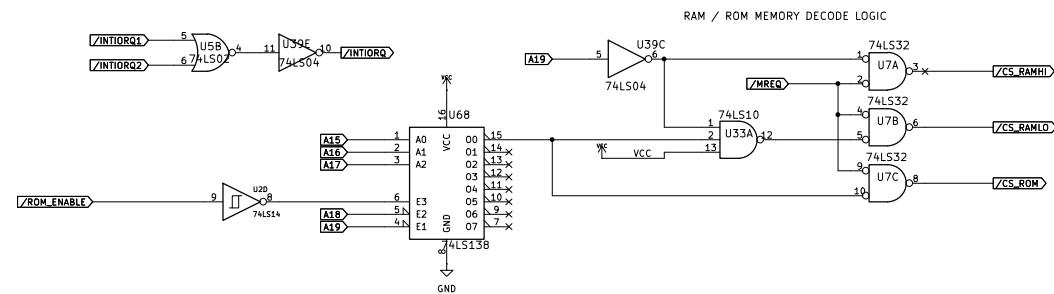
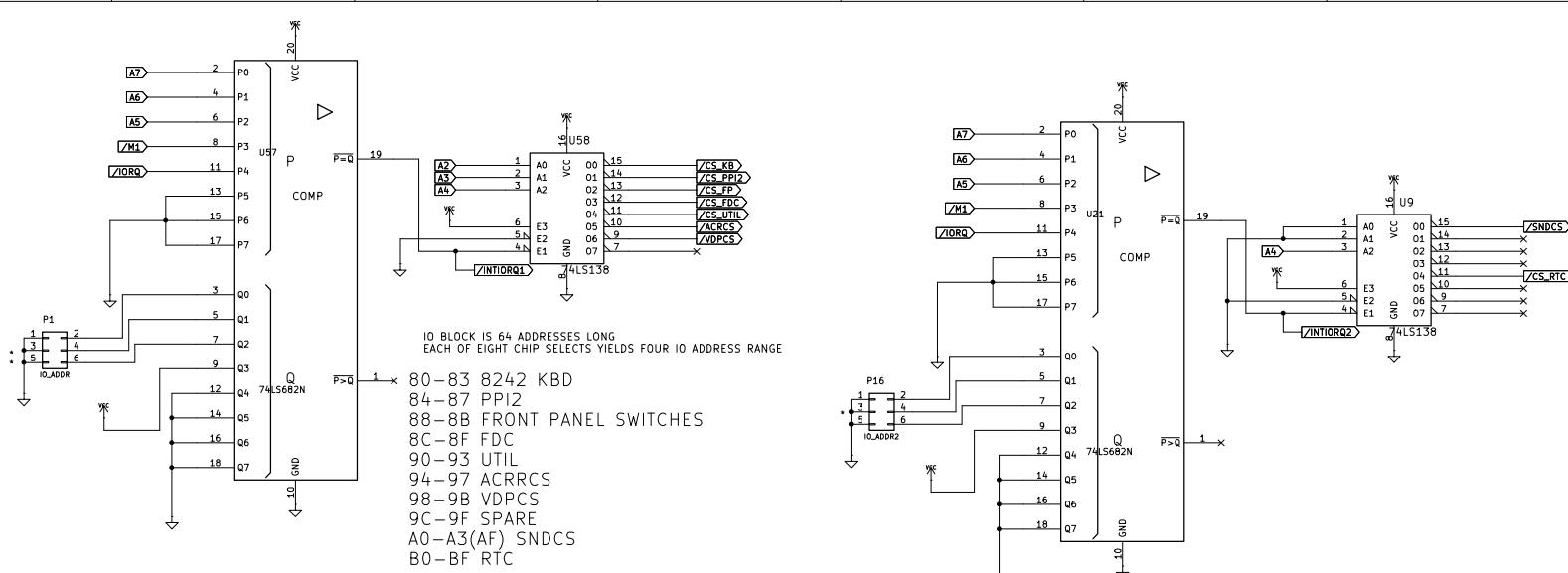
Sheet: /ISA bus/
File: ECBbus.kicad_sch

Title: N8PC

Size: USLedger Date: 2025-11-26
KICad E.D.A. 9.0.2

Rev: 000.9
Id: 2/17





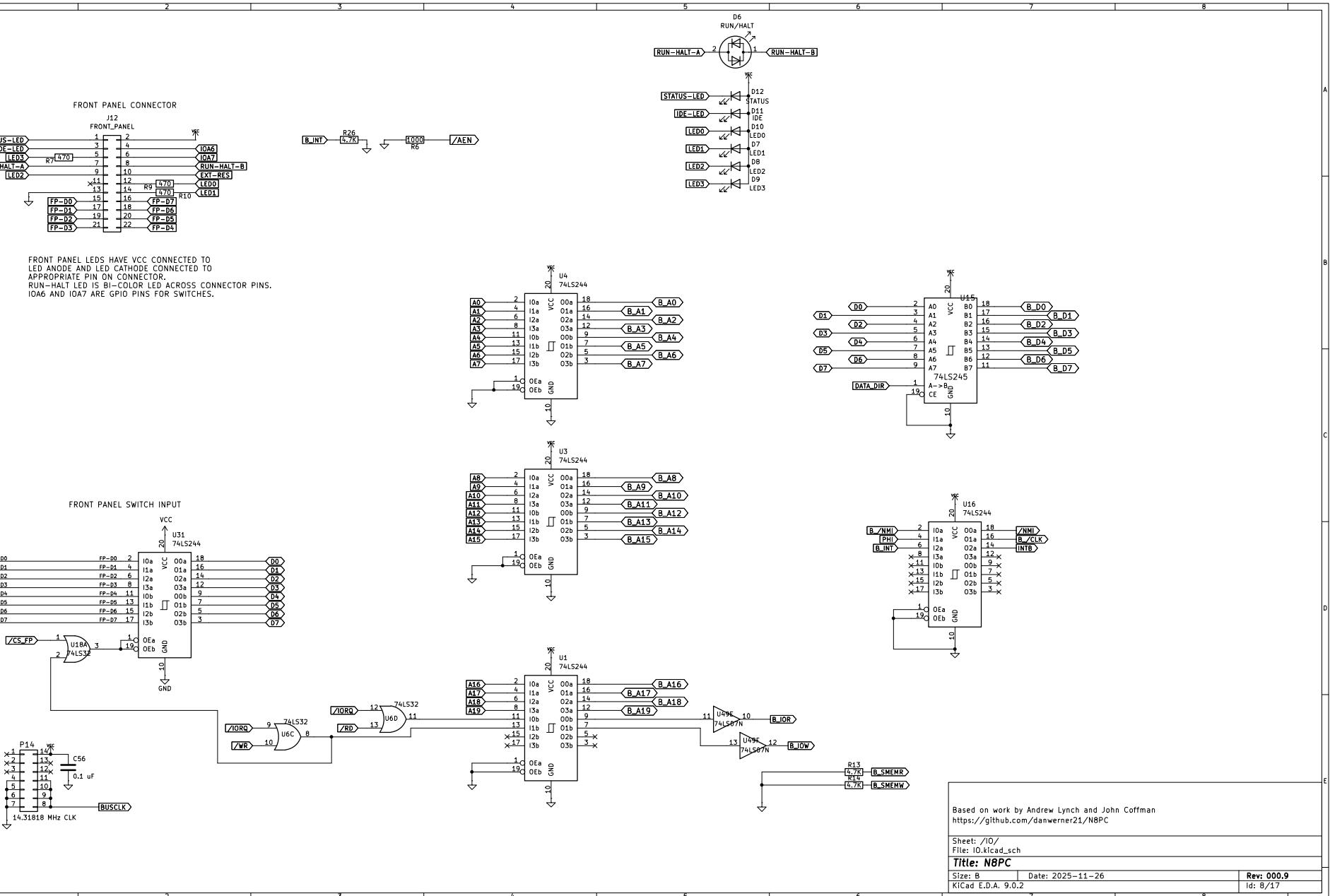
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /Decoder/
File: Decoder.kicad_sch

Title: N8PC

Size: B Date: 2025-11-26
KiCad E.D.A. 9.0.2

Rev: 000.9
Id: 7/17



1 2 3 4 5 6 7 8

A

B

C

D

E

A

B

C

D

E

SPARE

x¹
U0A
x²
74LS08

x⁶
UBB
x⁵
74LS08

x⁹
UBC
x¹⁰
74LS08

x²
U5A
x¹⁷
74LS02

x²
U17A
x^{74LS125}

x⁵
U17B
x^{74LS125}

x⁹
U17C
x^{74LS125}

x¹¹
U21
x^{74LS124}

x¹¹
U22
x^{74LS124}

x¹³
U23
x^{74LS124}

x⁹
U26D
x^{74LS06}

x¹¹
U26E
x^{74LS06}

Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /Spare/
File: Spare.kicad_sch

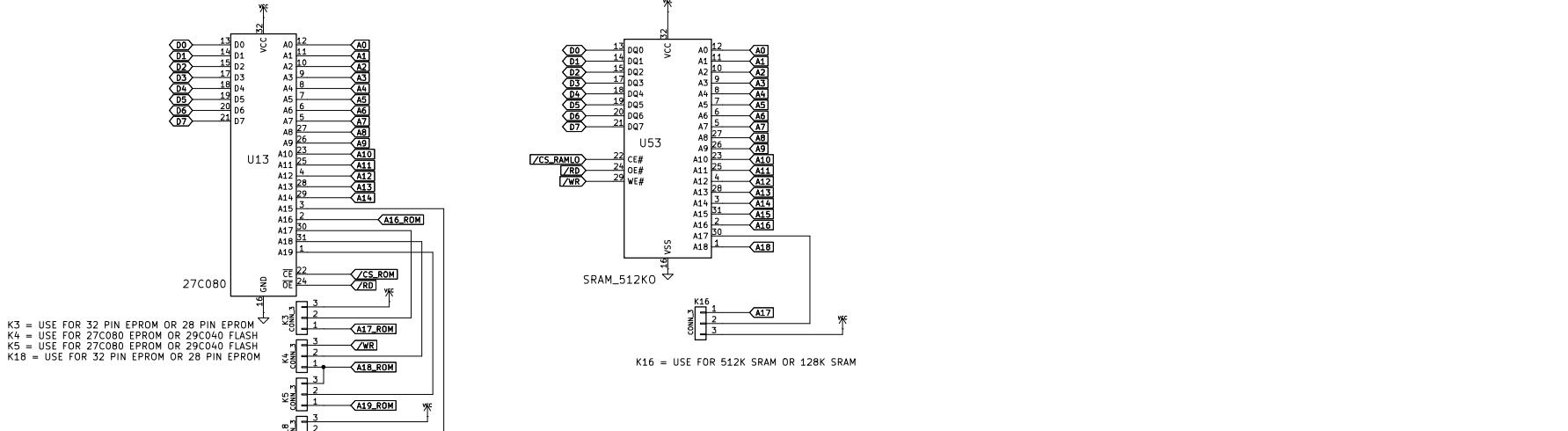
Title: N8PC

Size: B Date: 2025-11-26
KiCad E.D.A. 9.0.2

Rev: 000.9
Id: 9/17

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8



1 2 3 4 5 6 7 8

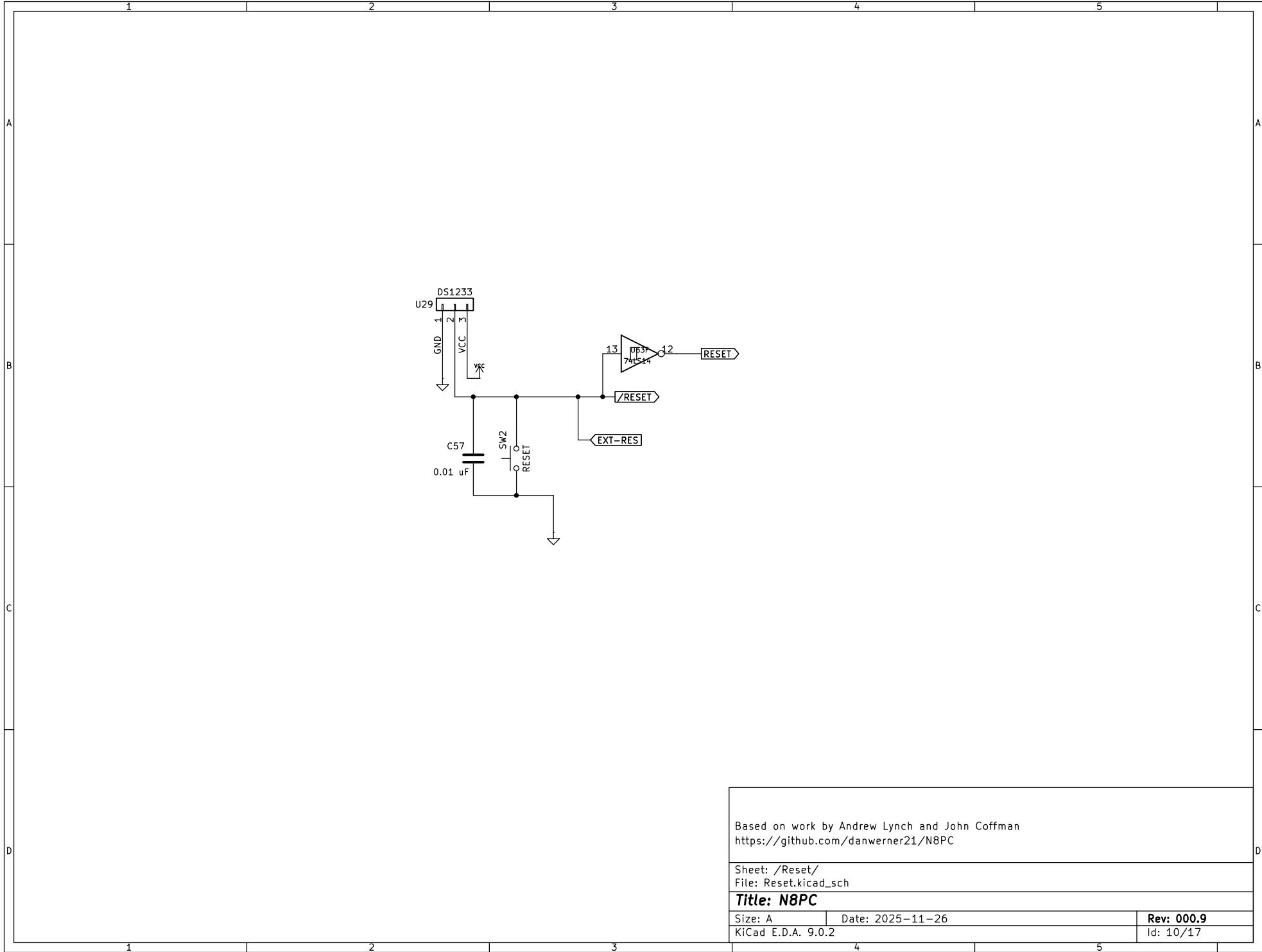
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /ramrom/
 File: ramrom.kicad_sch

Title: N8PC

Size: USLetter Date: 2025-11-26
 KiCad E.D.A. 9.0.2

Rev: 000.9
 Id: 10/17



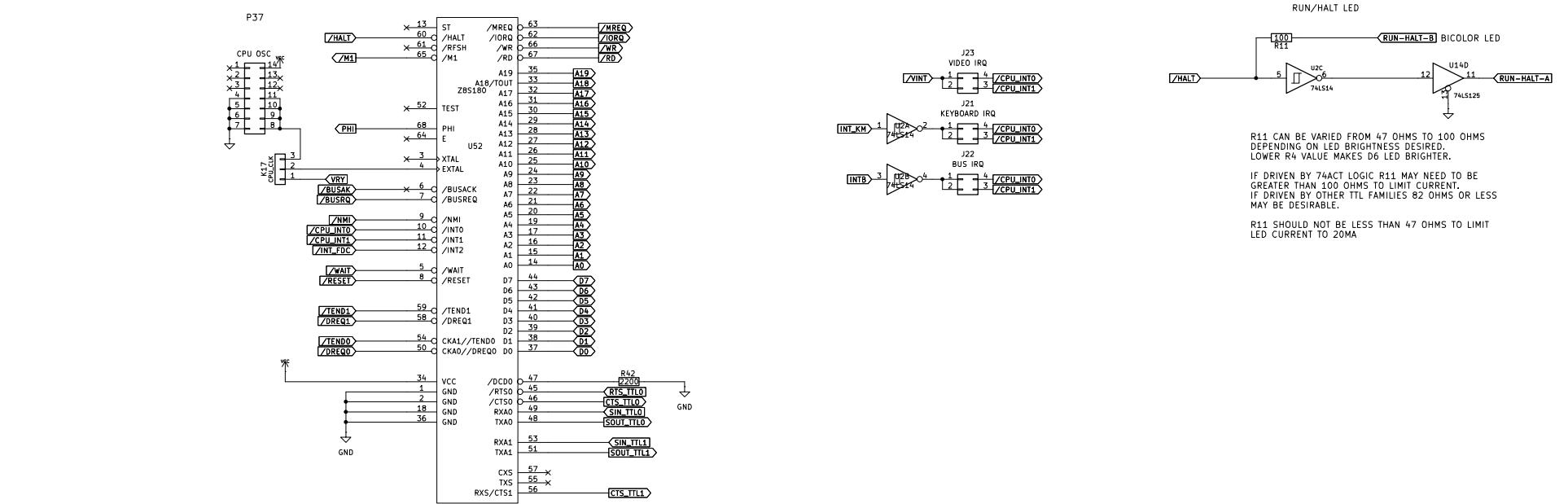
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /Reset/
File: Reset.kicad_sch

Title: N8PC

Size: A Date: 2025-11-26
KiCad E.D.A. 9.0.2

Rev: 000.9
Id: 10/17



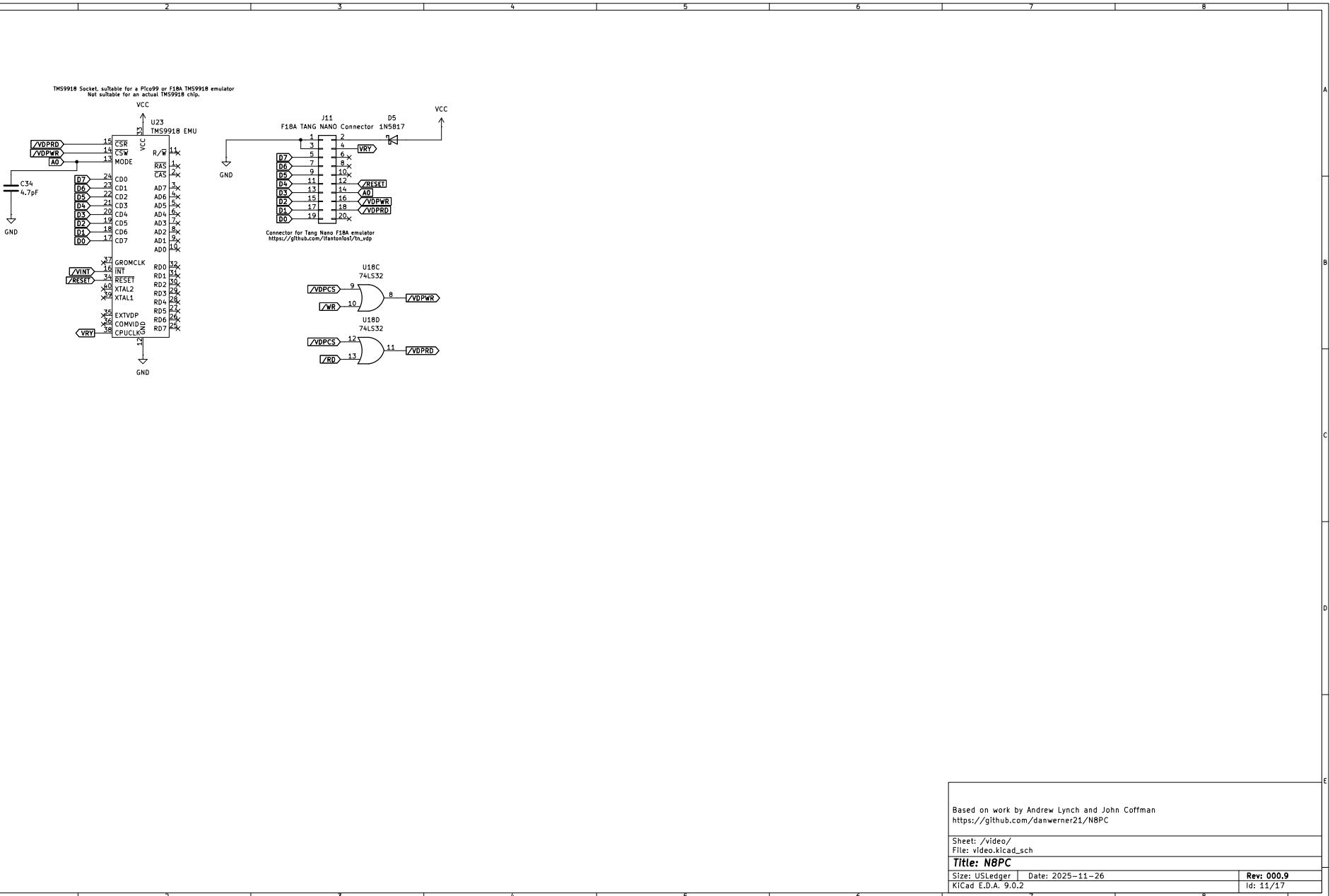
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

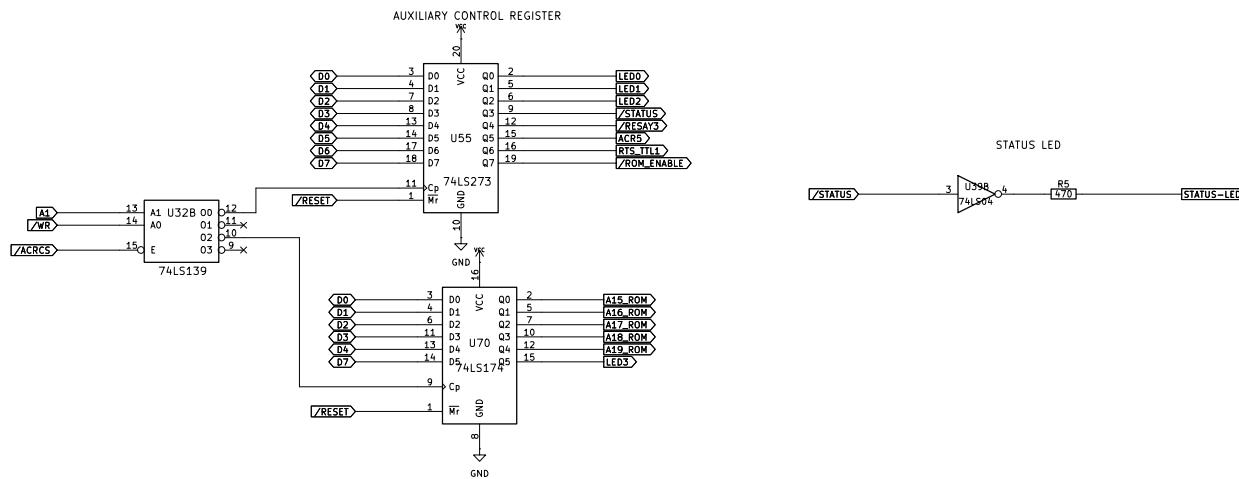
Sheet: /CPU/
File: cpu.kicad_sch

Title: N8PC

Size: B Date: 2025-11-26
KiCad E.D.A. 9.0.2

Rev: 000.9
Id: 11/17





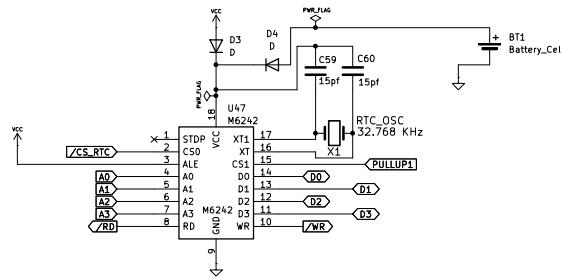
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /acr/
File: acr.kicad_sch

Title: N8PC

Size: USLetter Date: 2025-11-26
KiCad E.D.A. 9.0.2

Rev: 000.9
Id: 12/17



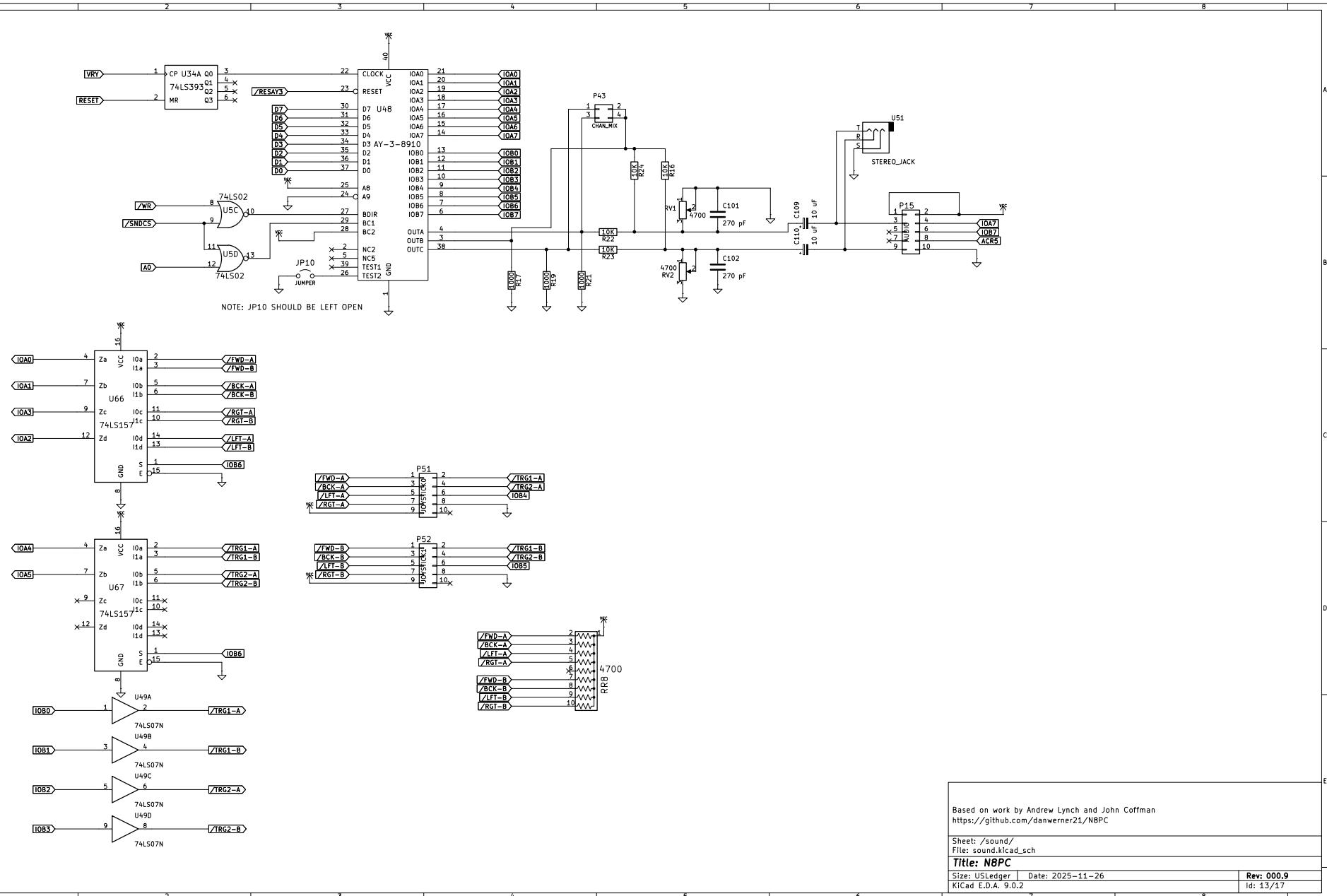
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

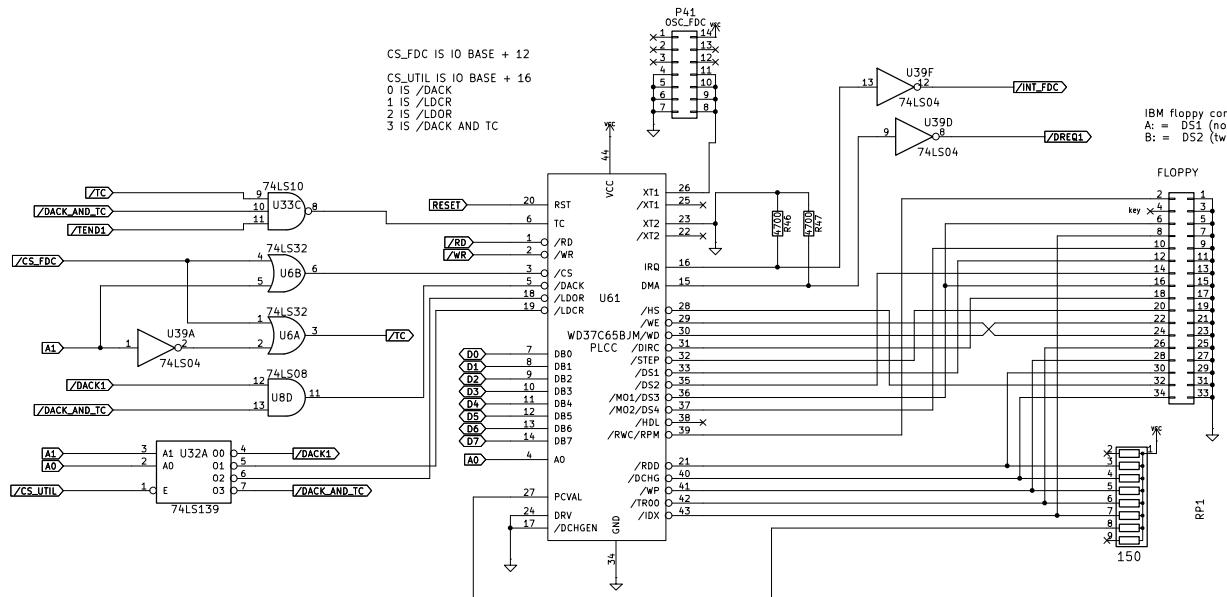
Sheet: /RTC/
 File: RTC.kicad_sch

Title: N8PC

Size: USLetter Date: 2025-11-26
 KiCad E.D.A. 9.0.2

Rev: 000.9
 Id: 13/17





Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /floppy/
File: floppy.kicad_sch

Title: N8PC

Size: USLedger Date: 2025-11-26
KICad E.D.A. 9.0.2

Rev: 000.9
Id: 14/17

NOTE: IMPORTANT

KNOWN TO WORK:

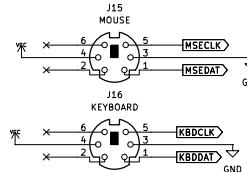
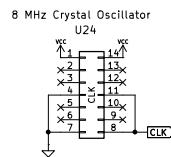
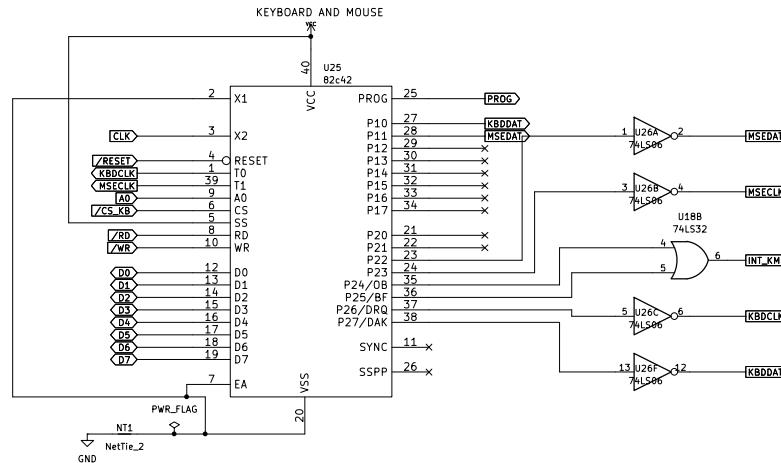
- VT82C42N (VIA)

LIKELY TO WORK BUT UNTESTED:

- HT6542B (Holtek)
- 83C42 (Western Digital)
- KBD42W11 (SMSC)

KNOWN DO NOT WORK:

- 8042 (Intel & clones of PC/AT era)



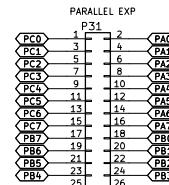
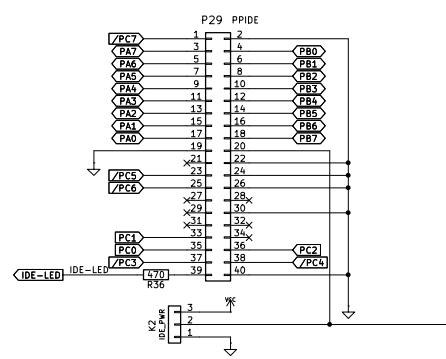
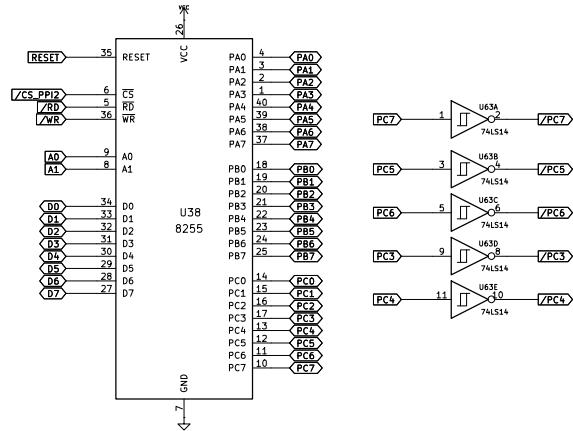
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /keyboard/
File: keyboard.kicad_sch

Title: N8PC

Size: USLetter | Date: 2025-11-26
KiCad E.D.A. 9.0.2

Rev: 000.9
Id: 15/17



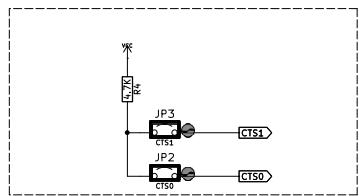
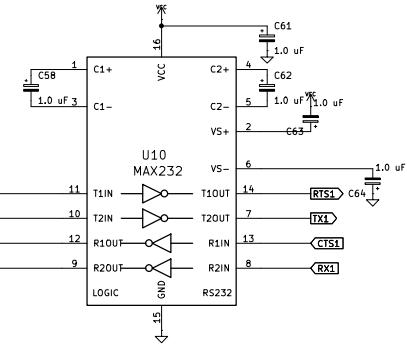
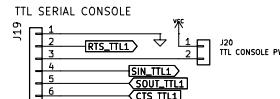
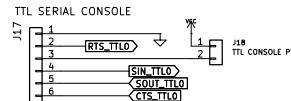
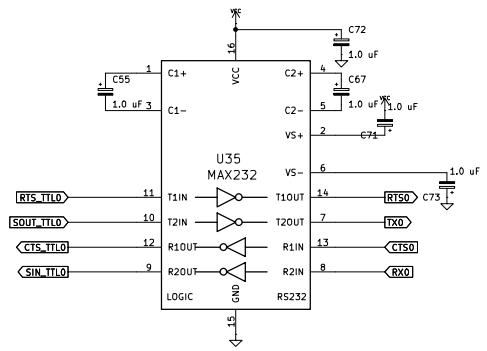
Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /ide/
 File: ide_kicad_sch

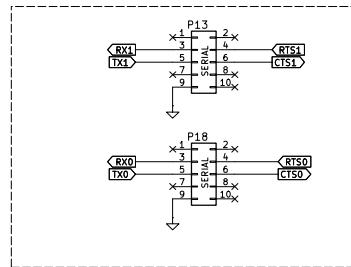
Title: N8PC

Size: USLetter Date: 2025-11-26
 KiCad E.D.A. 9.0.2

Rev: 000.9
 Id: 16/17



CTS is an inverted signal on the RS-232 port. So it is really /CTS. To assert the signal, it must be tied to SPACE, which is a + RS-232 voltage. (MARK, or true, is a - RS-232 voltage.)



Based on work by Andrew Lynch and John Coffman
<https://github.com/danwerner21/N8PC>

Sheet: /serial/
File: serial.kicad_sch

Title: N8PC

Size: USLetter Date: 2025-11-26
KICad E.D.A. 9.0.2

Rev: 000.9
Id: 18/17