

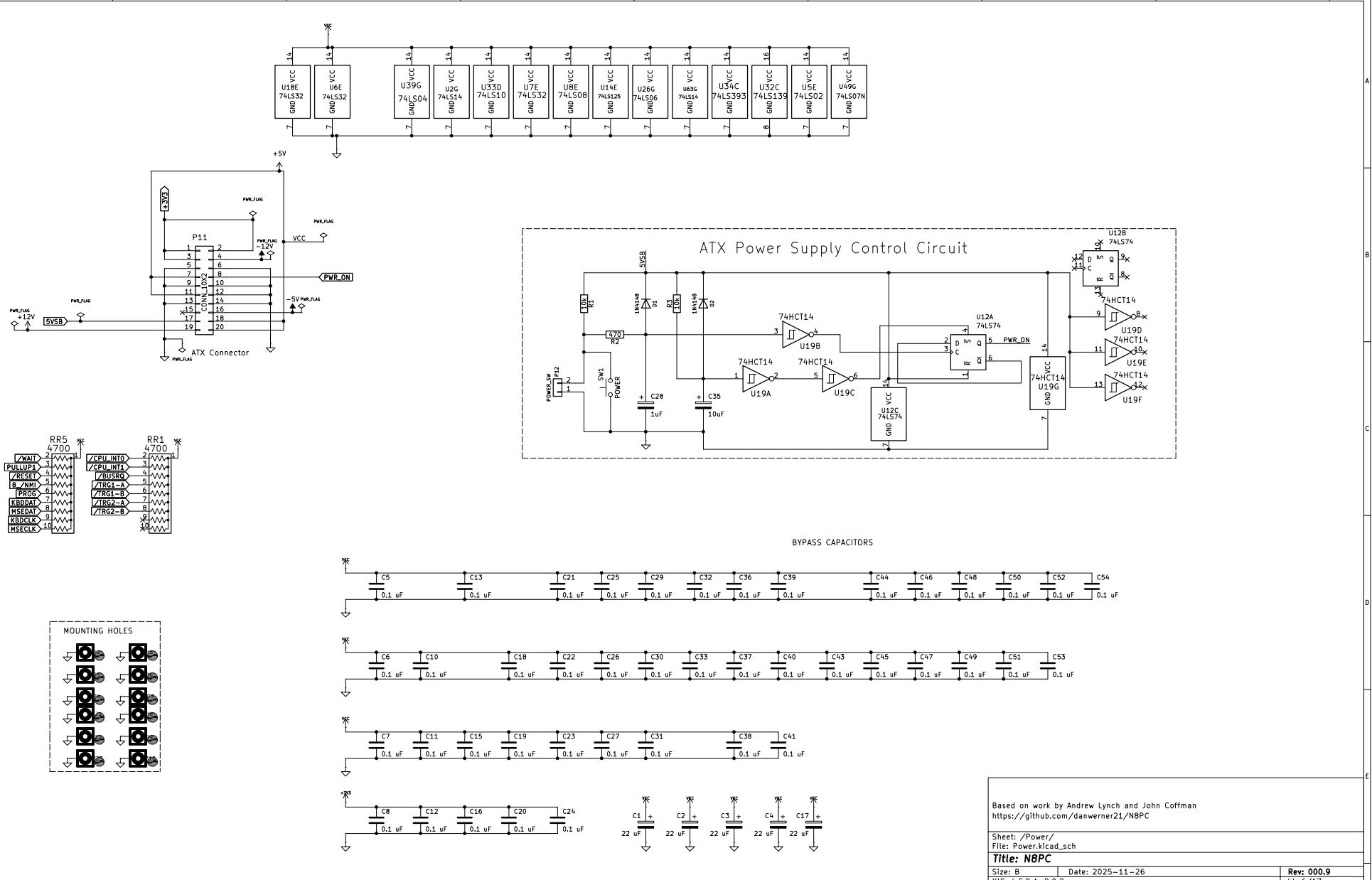
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

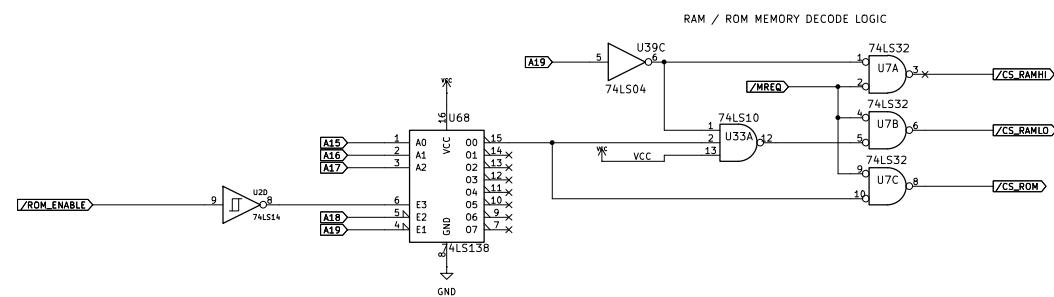
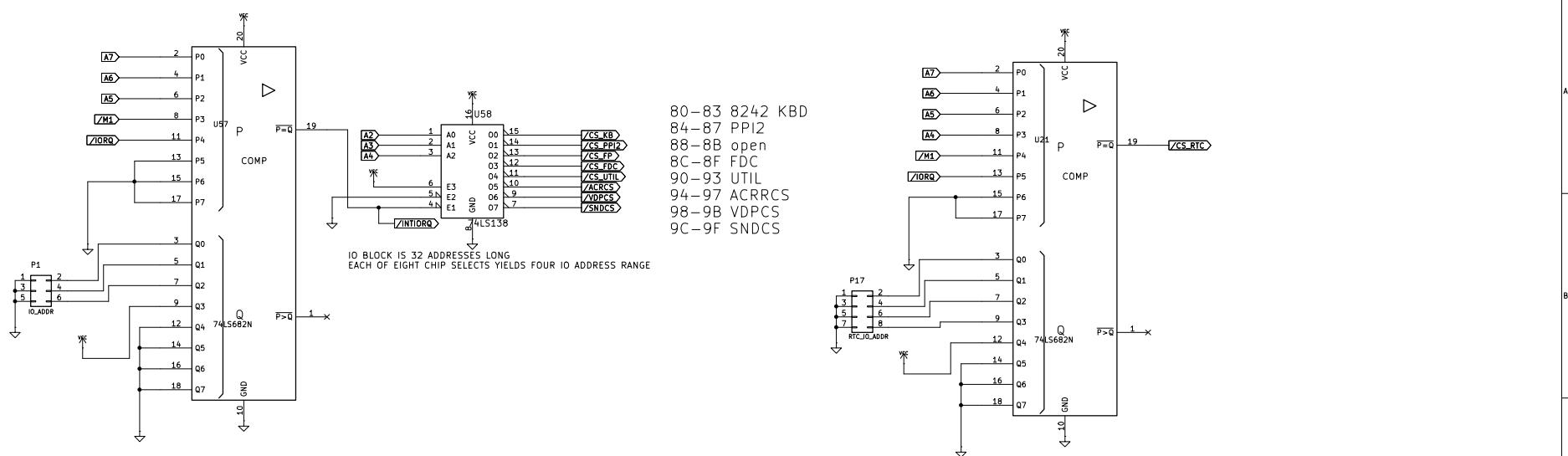
Sheet: /ISA bus/  
File: ECBbus.kicad\_sch

Title: N8PC

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

Rev: 000.9  
Id: 2/17





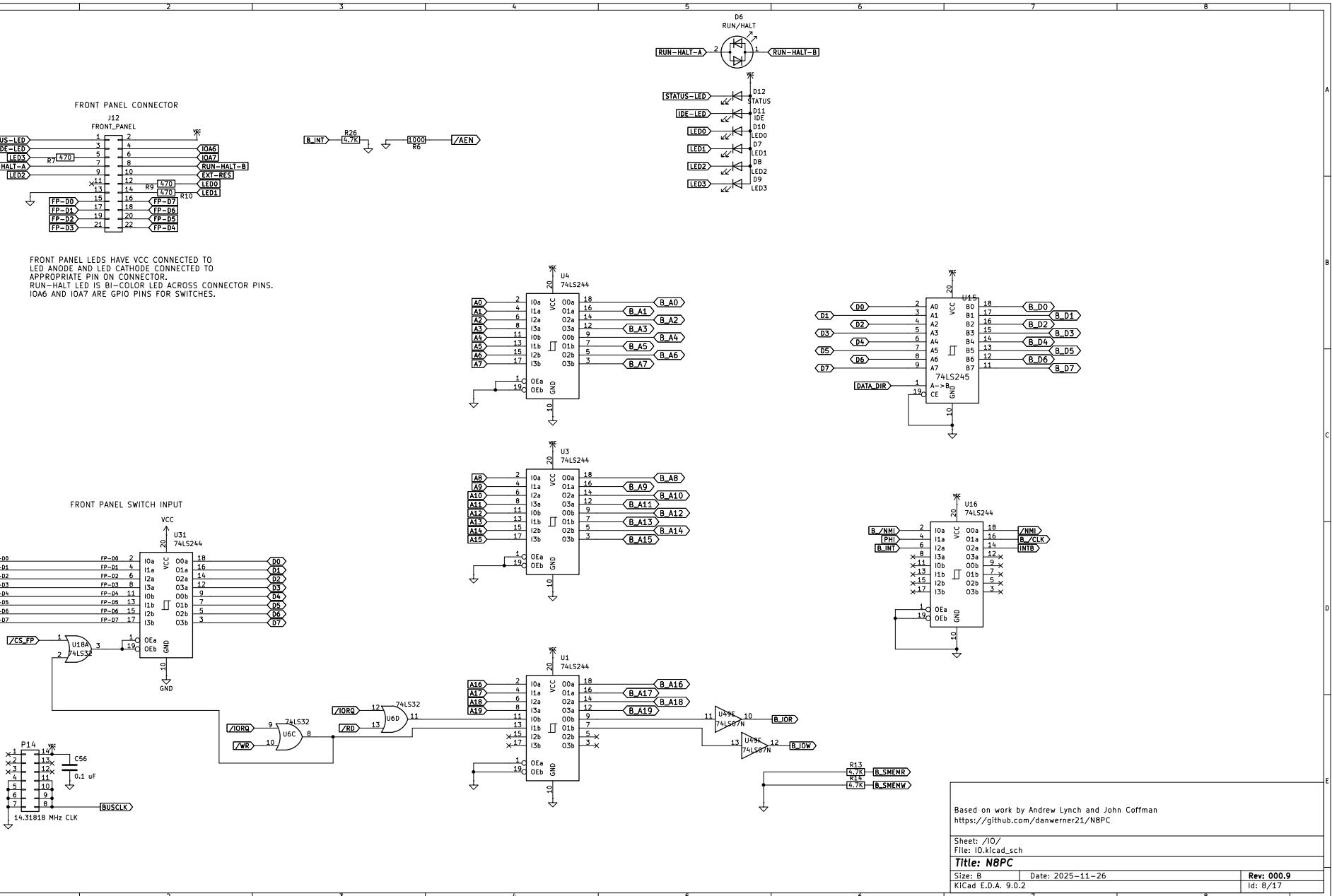
Based on work by Andrew Lynch and John Coffman  
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Sheet: /Decoder/  
File: Decoder.kicad\_sch

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

SPARE

x<sup>4</sup>  
U0A  
x<sup>2</sup>  
74LS08

x<sup>6</sup>  
UBB  
x<sup>5</sup>  
74LS08

x<sup>8</sup>  
UBC  
x<sup>10</sup>  
74LS08

x<sup>2</sup>  
USA  
x<sup>7</sup>  
74LS02

x<sup>8</sup>  
USB  
x<sup>5</sup>  
74LS02

x<sup>2</sup>  
U17A  
x<sup>7</sup>  
74LS125

x<sup>5</sup>  
U17B  
x<sup>7</sup>  
74LS125

x<sup>9</sup>  
U17C  
x<sup>9</sup>  
74LS125

x<sup>11</sup>  
U21  
x<sup>10</sup>  
74LS244

x<sup>13</sup>  
U22  
x<sup>12</sup>  
74LS244

x<sup>11</sup>  
U35E  
x<sup>10</sup>  
74LS04

x<sup>9</sup>  
U26D  
x<sup>8</sup>  
74LS06

x<sup>11</sup>  
U26E  
x<sup>10</sup>  
74LS06

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<https://github.com/danwerner21/N8PC>

Sheet: /Spare/  
File: Spare.kicad\_sch

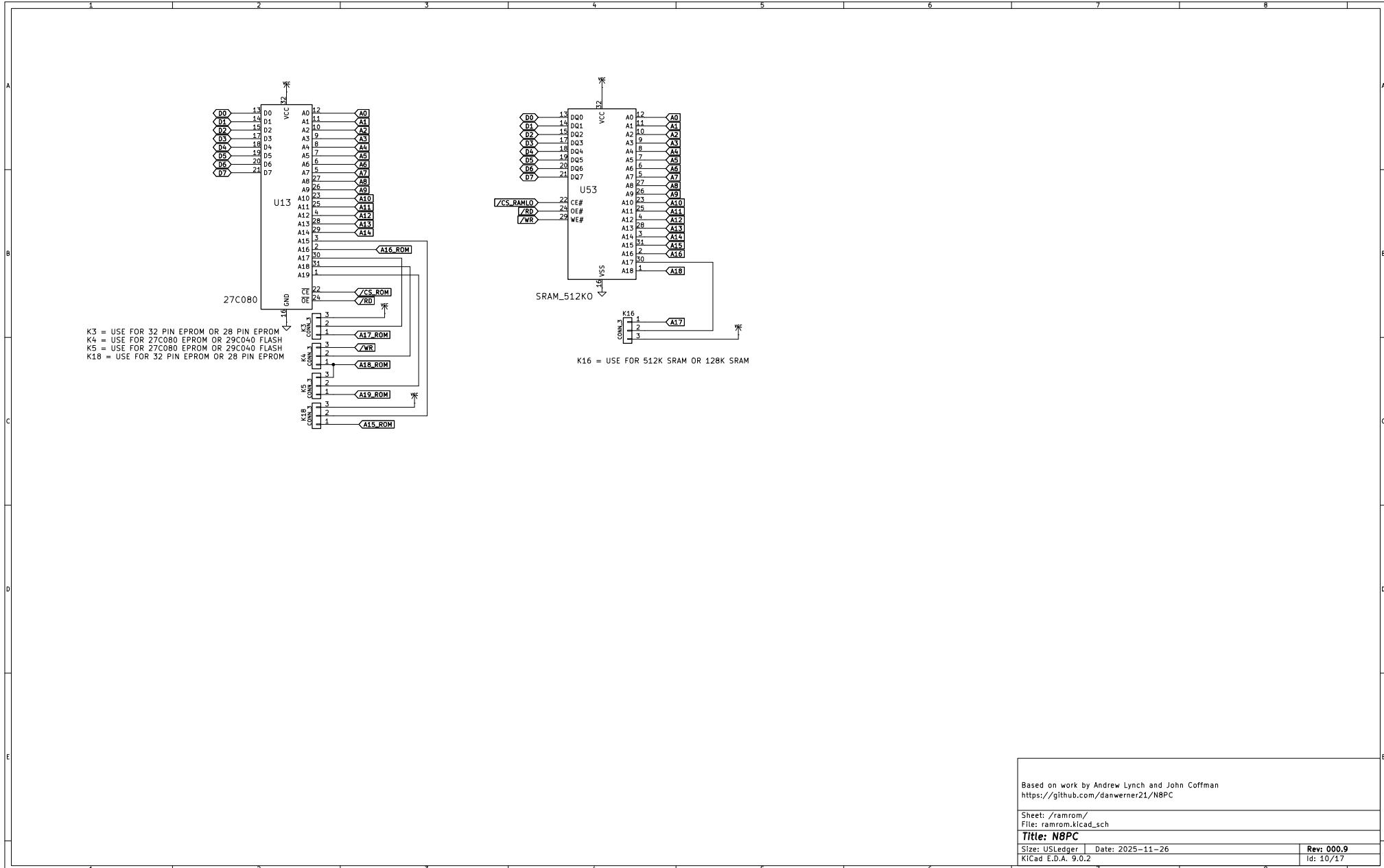
**Title: N8PC**

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



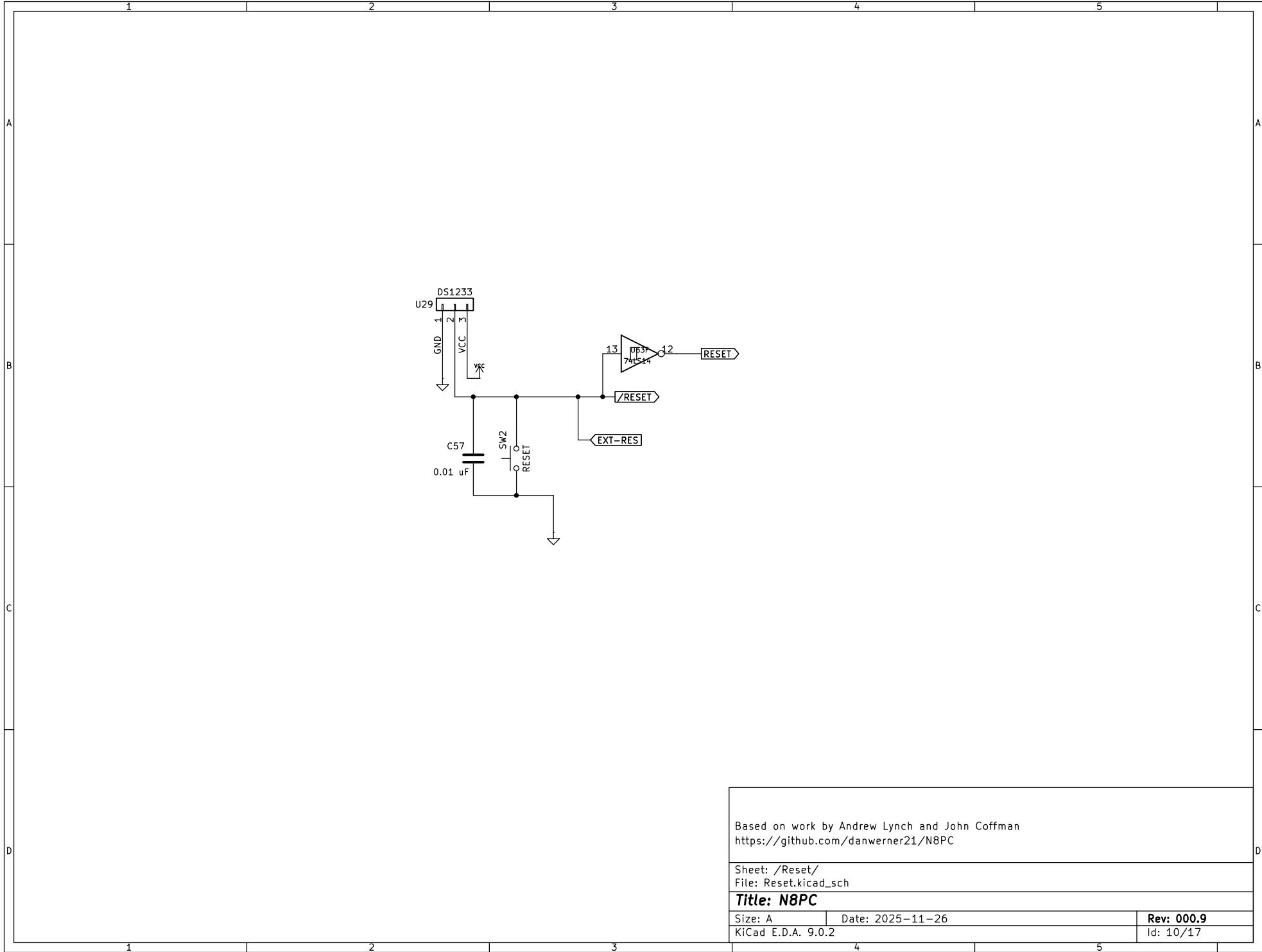
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

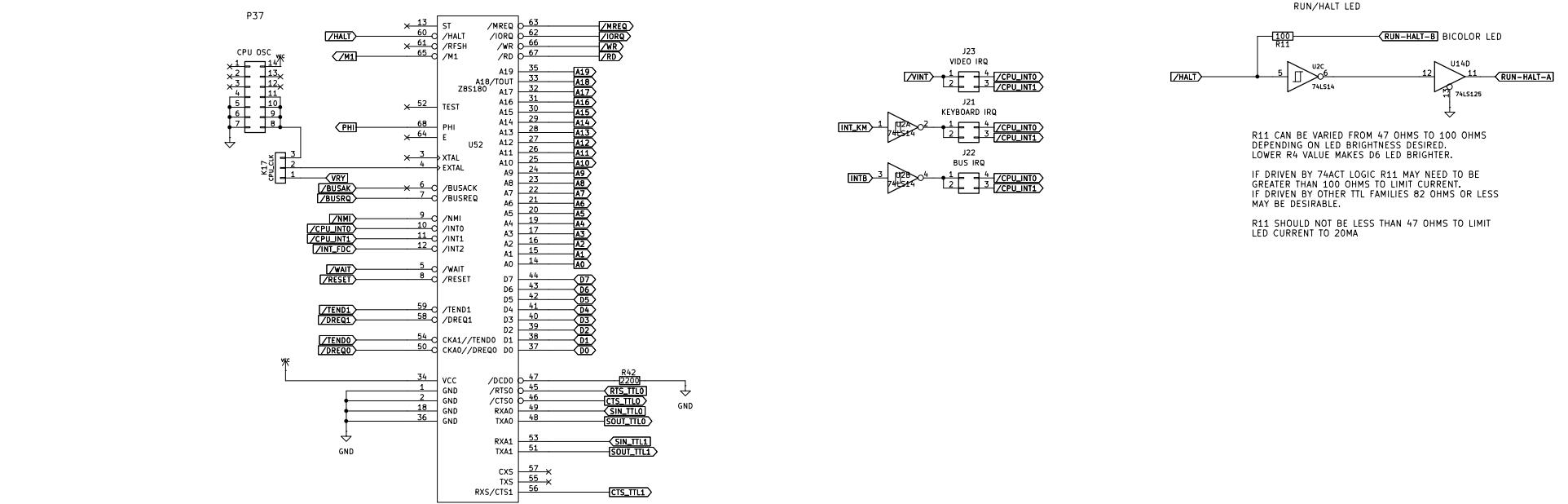
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 File: ramrom.kicad\_sch

**Title: N8PC**

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

Rev: 000.9  
 Id: 10/17



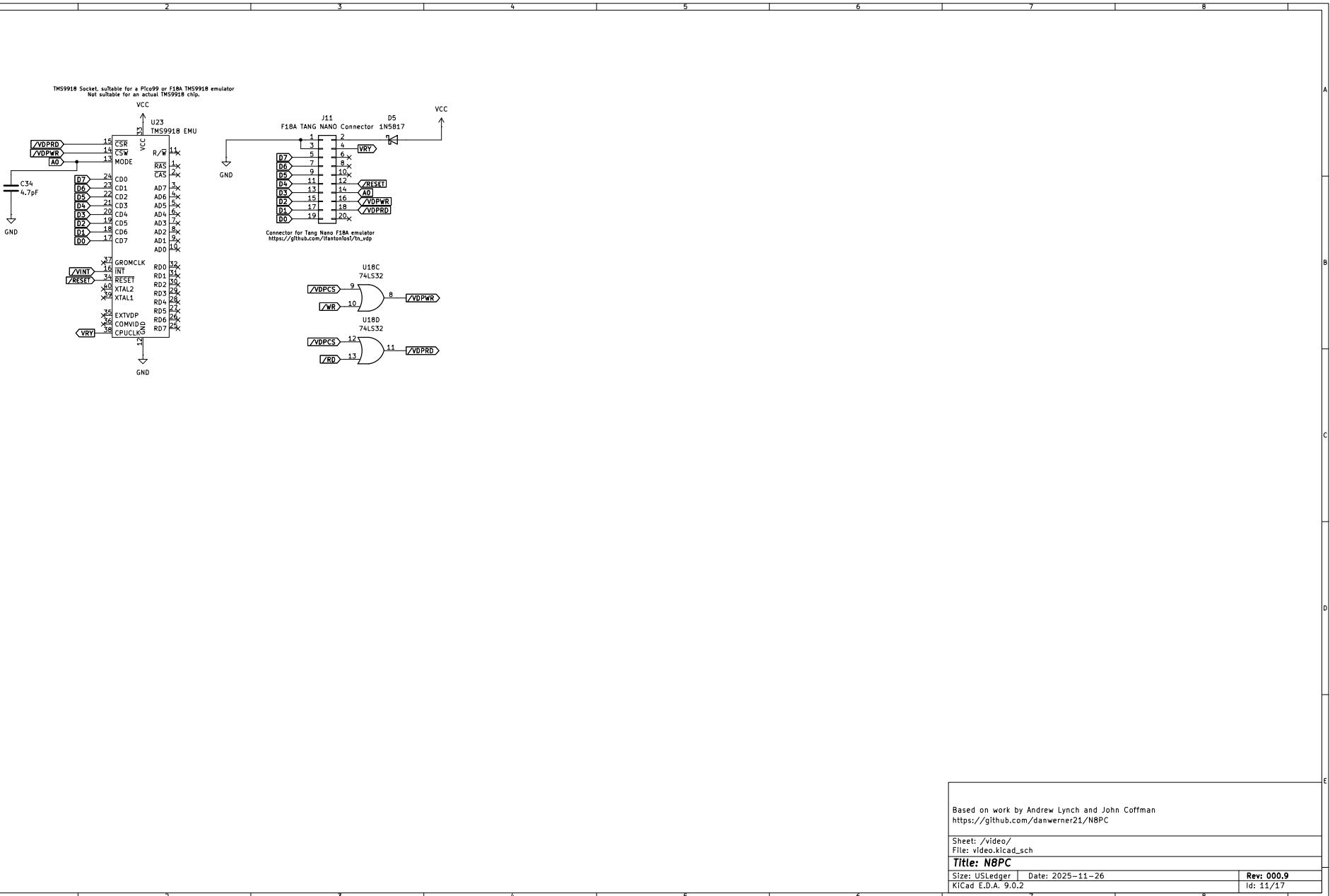


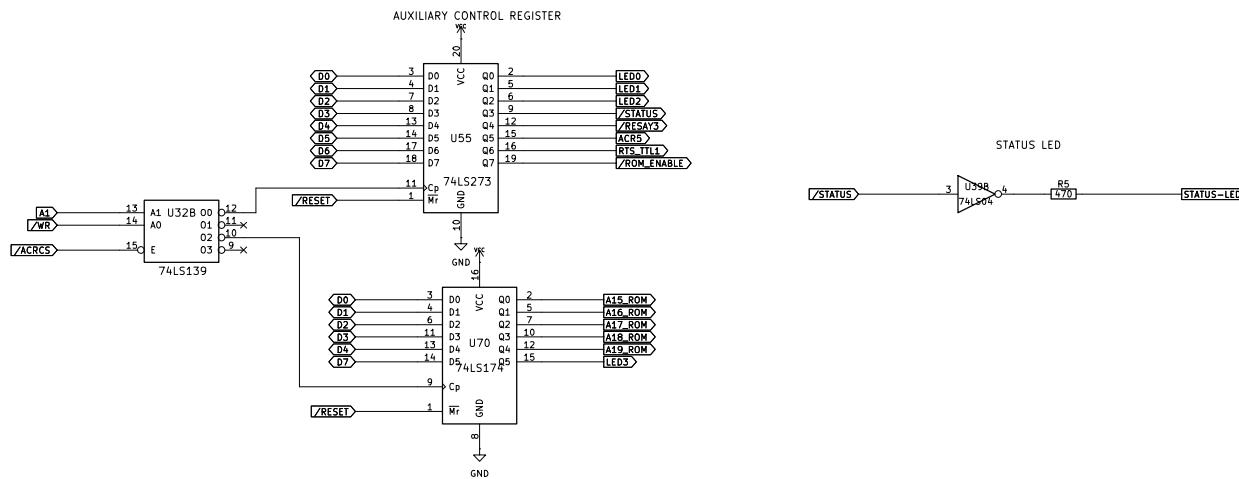
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

Sheet: /CPU/  
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**Title: N8PC**

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

Rev: 000.9  
 Id: 11/17





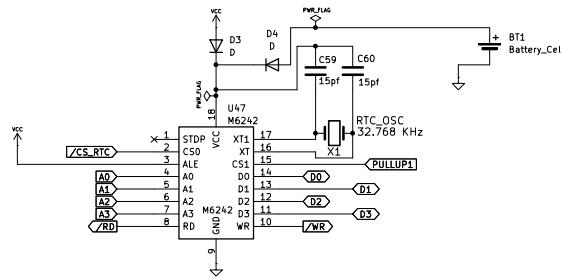
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

Sheet: /acr/  
File: acr.kicad\_sch

**Title: N8PC**

Size: USLetter Date: 2025-11-26  
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Rev: 000.9  
Id: 12/17



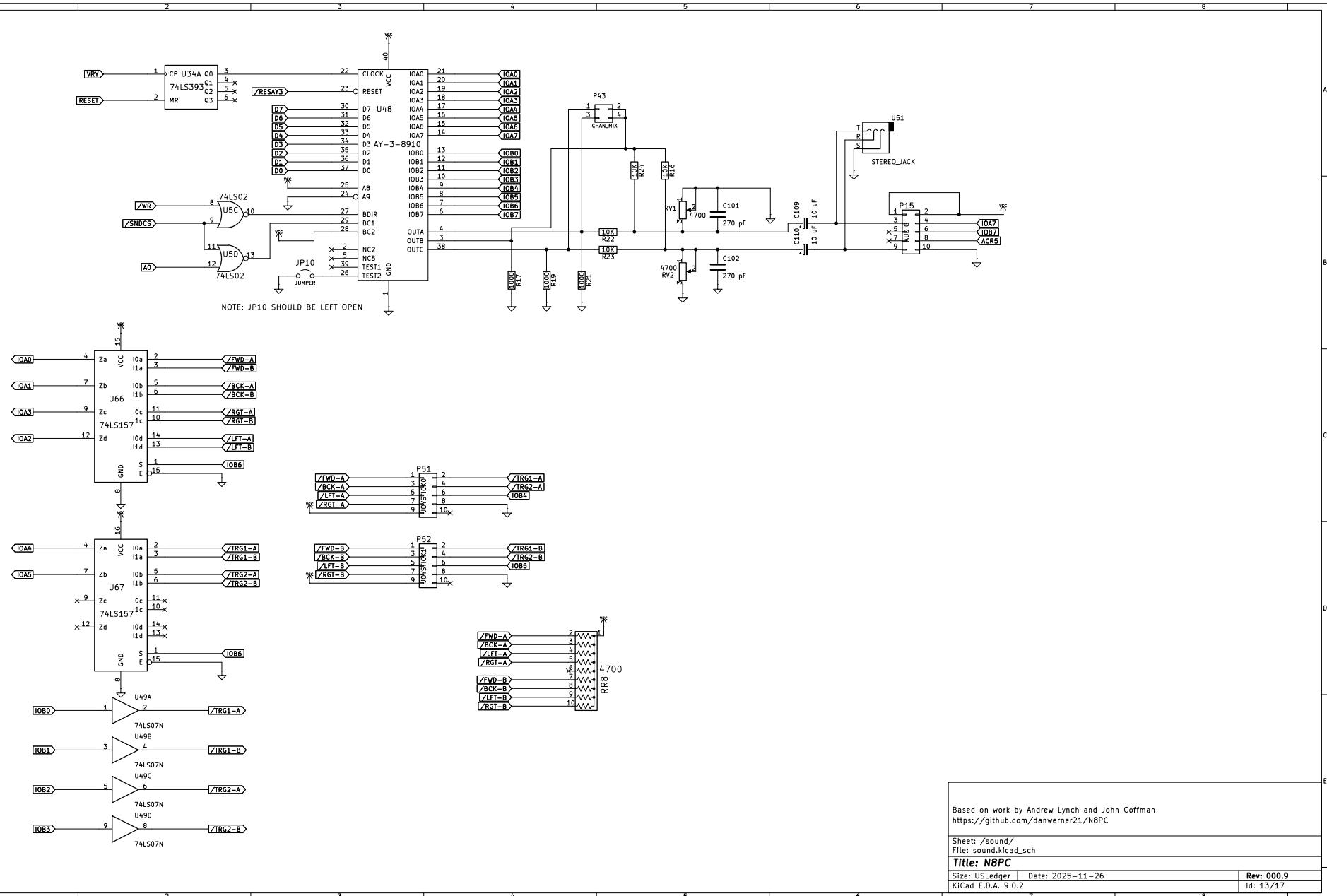
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

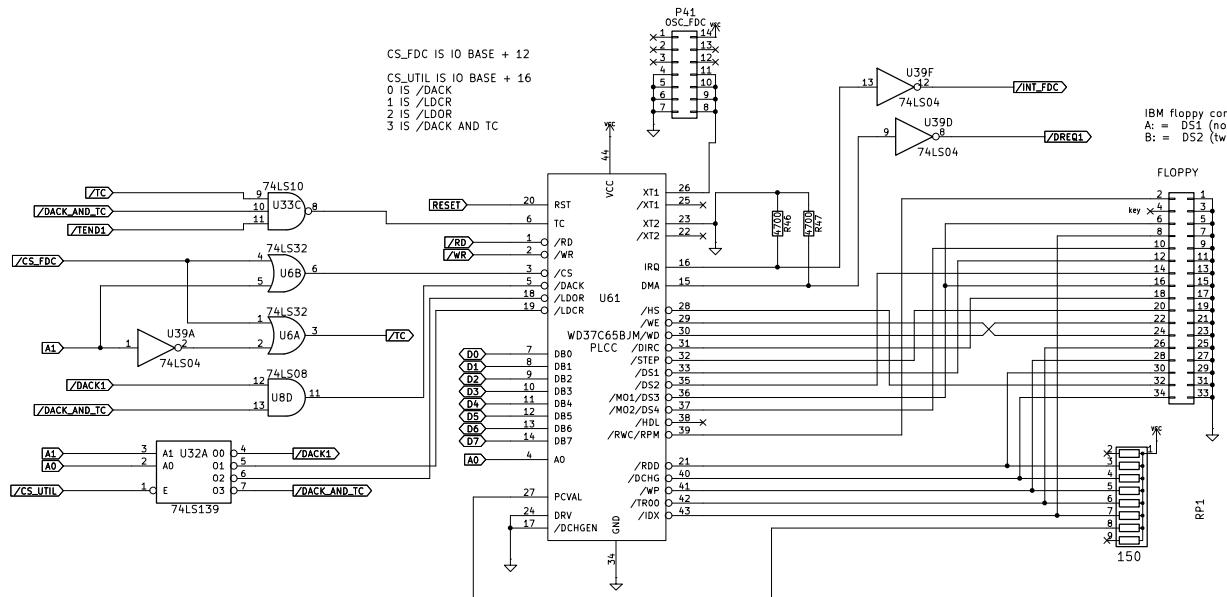
Sheet: /RTC/  
 File: RTC.kicad\_sch

**Title: N8PC**

Size: USLetter Date: 2025-11-26  
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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:**

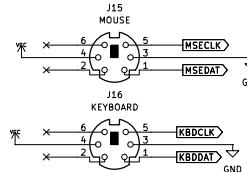
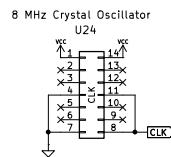
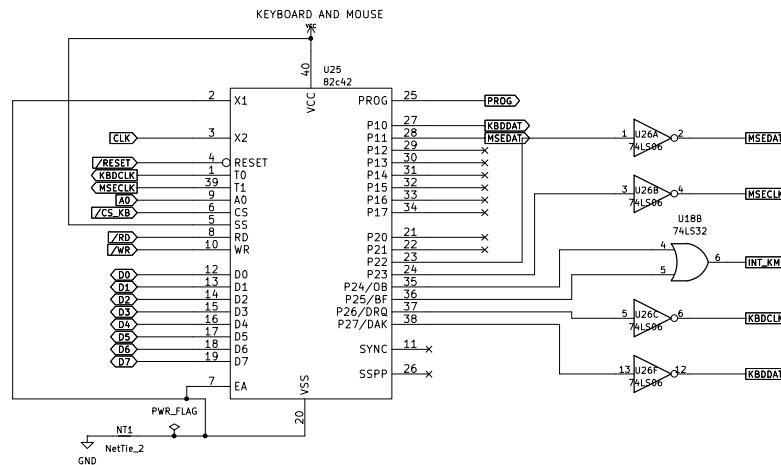
- VT82C42N (VIA)

**LIKELY TO WORK BUT UNTESTED:**

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

**KNOWN DO NOT WORK:**

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



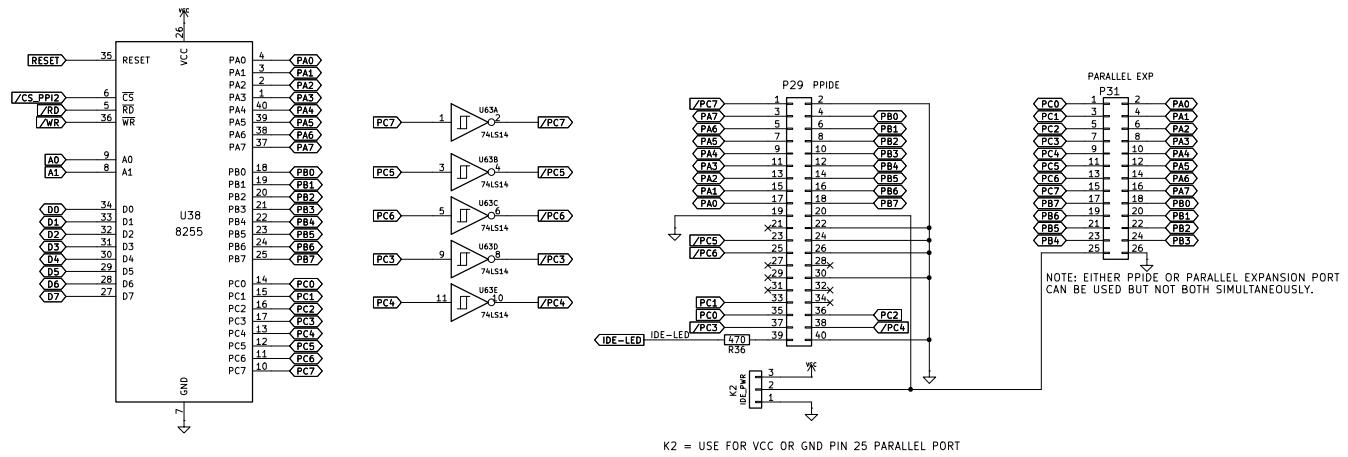
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

Sheet: /keyboard/  
File: keyboard.kicad\_sch

**Title: N8PC**

Size: USLetter | Date: 2025-11-26  
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Rev: 000.9  
Id: 15/17



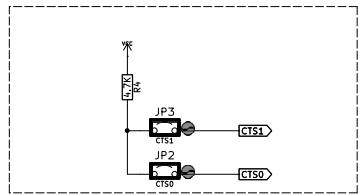
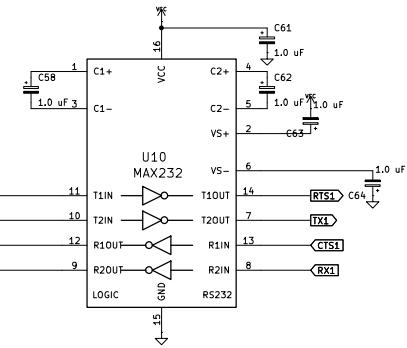
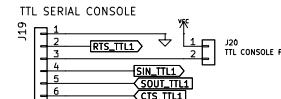
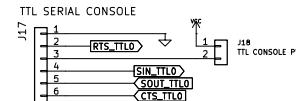
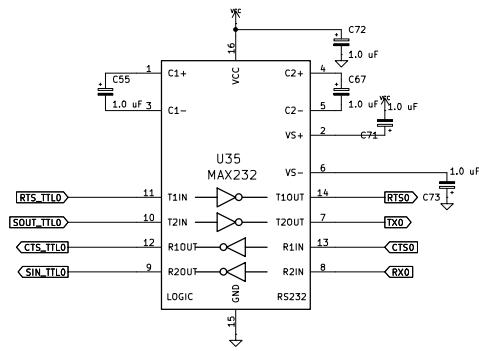
Based on work by Andrew Lynch and John Coffman  
<https://github.com/danwerner21/N8PC>

Sheet: /ide/  
File: ide.kicad\_sch

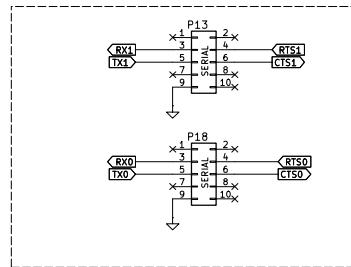
Title: N8PC

Size: USLedger 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  
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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