

File: ECBbus.kicad\_sch

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File: Decoder.kicad\_sch

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File: ramrom.kicad\_sch

File: video\_kiosk.qch

File: video.kicad\_sch

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File: Power.kicad\_sch

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File: cpu.kicad\_sch

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File: Spare.kicad\_sch

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File: RTC.kicad\_sch

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File: acr.kicad\_sch

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File: IO.kicad\_sch

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File: Reset.kicad\_sch

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File: sound.kicad\_sch

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File: floppy.kicad\_sch

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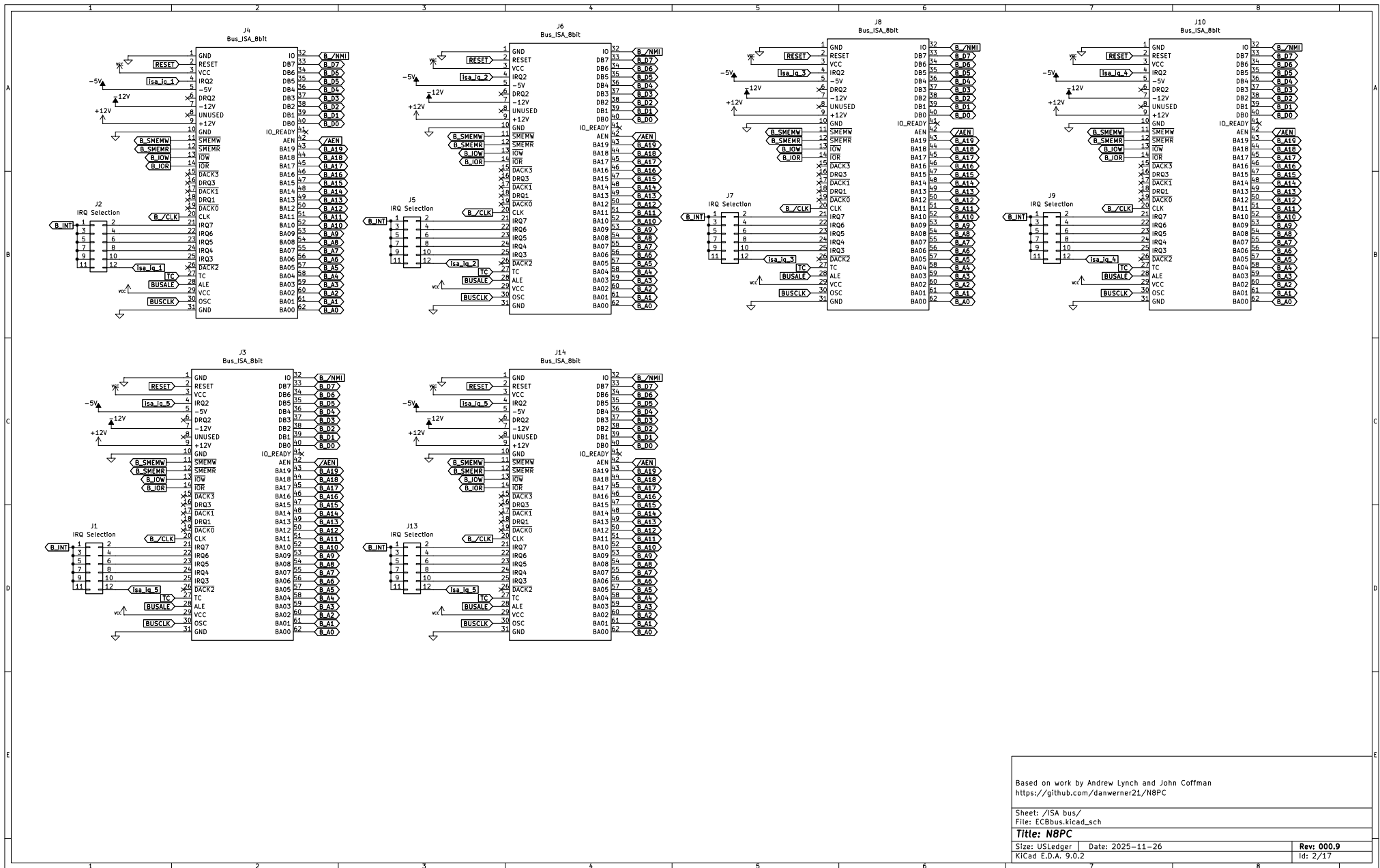
File: keyboard.kicad\_sch

File: ide.kicad\_sch

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File: serial.kicad\_sch

Rev: 000.9  
Id: 1/17



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

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

**Title: N8PC**

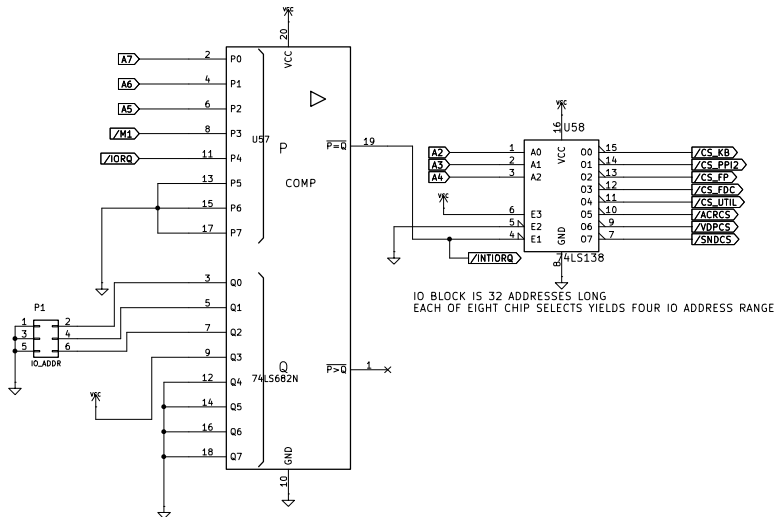
Size: USLedger Date: 2025-11-26

KiCad E.O.A. 9.0.2

Rev: 000.9

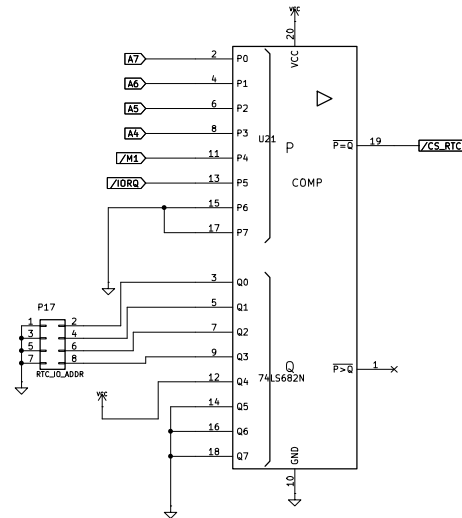
Id: 2/17



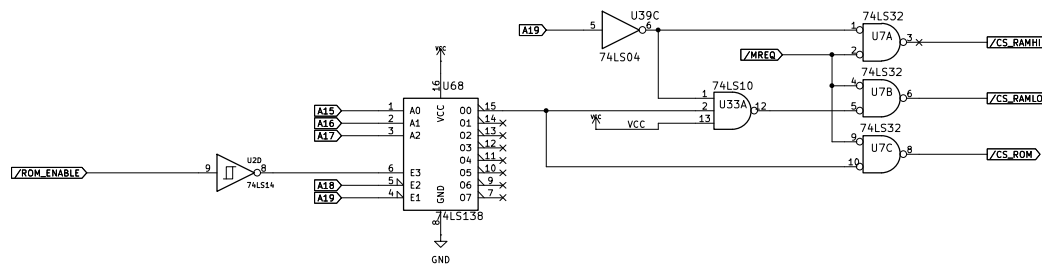


80-83 8242 KBD  
84-87 PPI2  
88-8B open  
8C-8F FDC  
90-93 UTIL  
94-97 ACRRCS  
98-9B VDPCS  
9C-9F SNDCS

IO BLOCK IS 32 ADDRESSES LONG  
EACH OF EIGHT CHIP SELECTS YIELDS FOUR IO ADDRESS RANGE



#### RAM / ROM MEMORY DECODE LOGIC



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

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

Title: N8PC

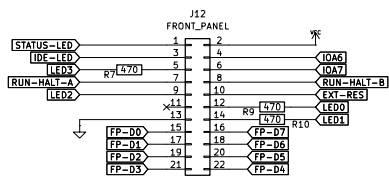
Size: B Date: 2025-11-26

Rev: 000.9

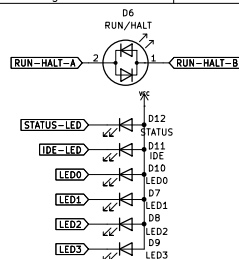
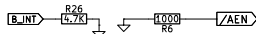
KiCad E.D.A. 9.0.2

Id: 7/17

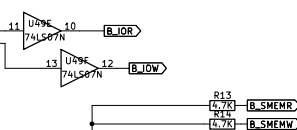
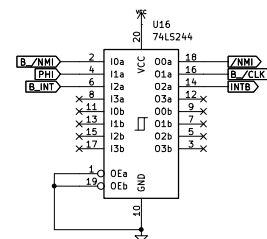
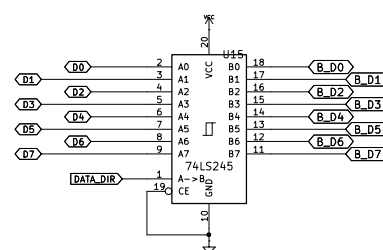
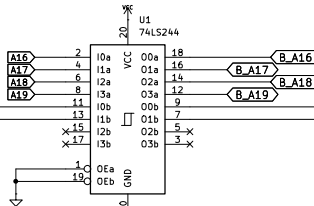
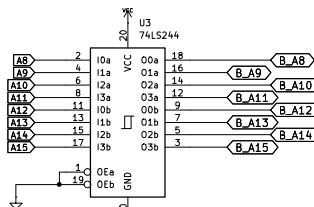
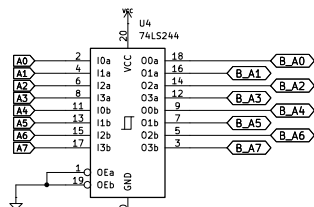
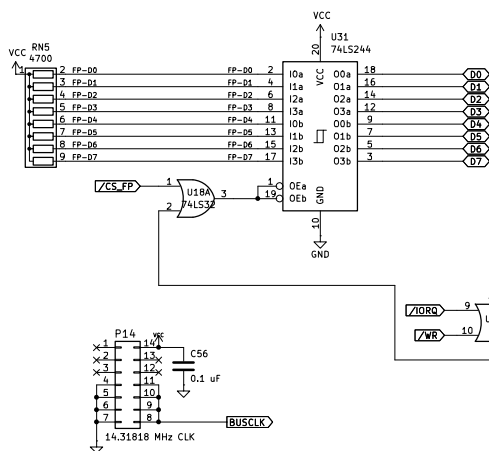
# FRONT PANEL CONNECTOR



FRONT PANEL LEDs HAVE VCC CONNECTED TO LED ANODE AND LED CATHODE CONNECTED TO APPROPRIATE PIN ON CONNECTOR.  
RUN-HALT LED IS BI-COLOR LED ACROSS CONNECTOR PINS.  
IOA6 AND IOA7 ARE GPIO PINS FOR SWITCHES.



# FRONT PANEL SWITCH INPUT



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

Sheet: /IO/

File: IO.kicad\_sch

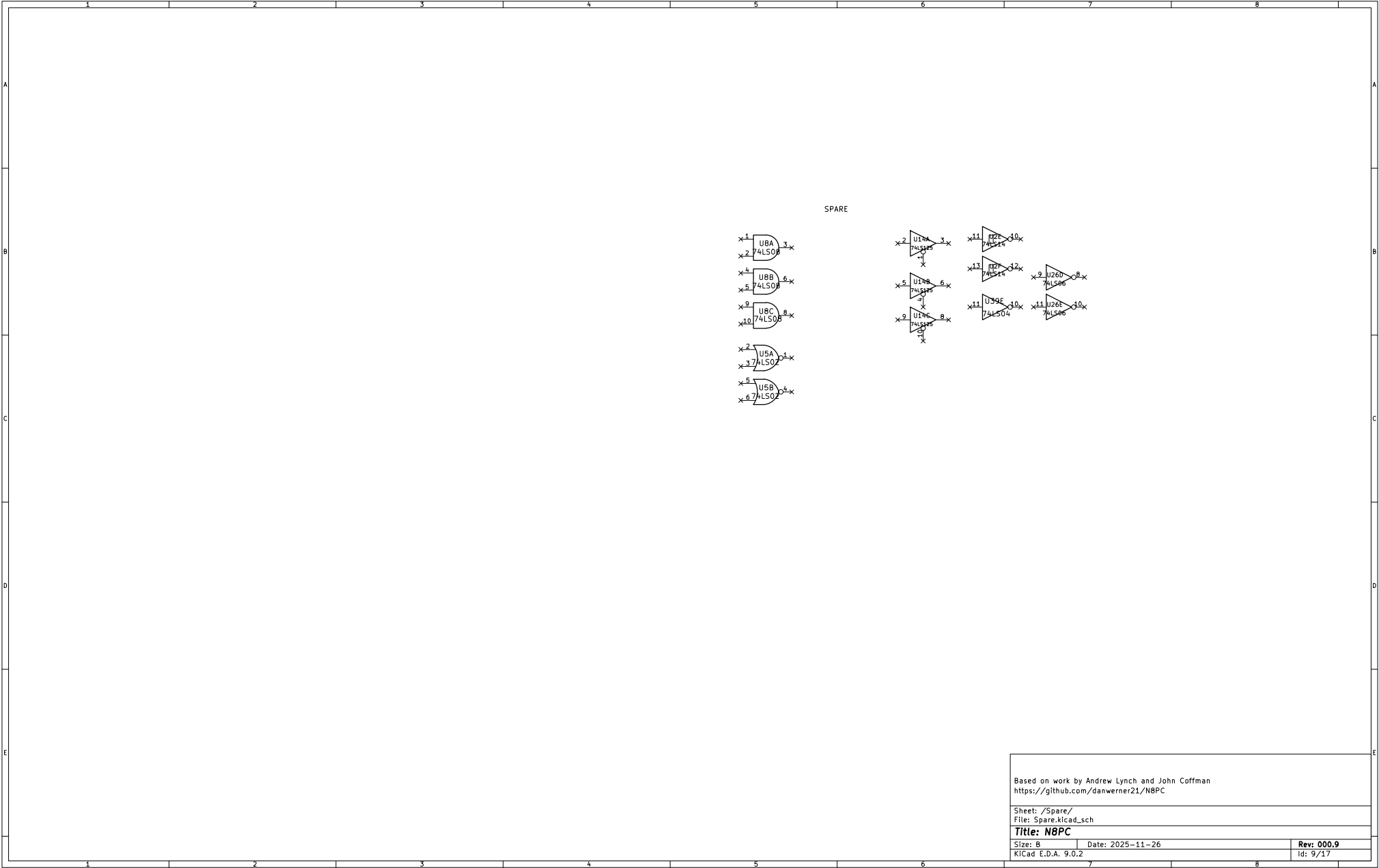
Title: N8PC

Size: B Date: 2025-11-26

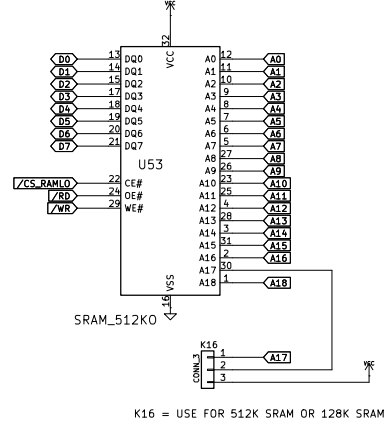
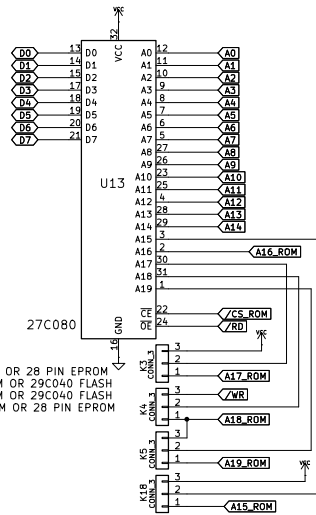
Rev: 000.9

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K3 = USE FOR 32 PIN EPROM OR 28 PIN EPROM  
 K4 = USE FOR 27C080 EPROM OR 29C040 FLASH  
 K5 = USE FOR 27C080 EPROM OR 29C040 FLASH  
 K18 = USE FOR 32 PIN EPROM OR 28 PIN EPROM



K16 = USE FOR 512K SRAM OR 128K SRAM

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

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

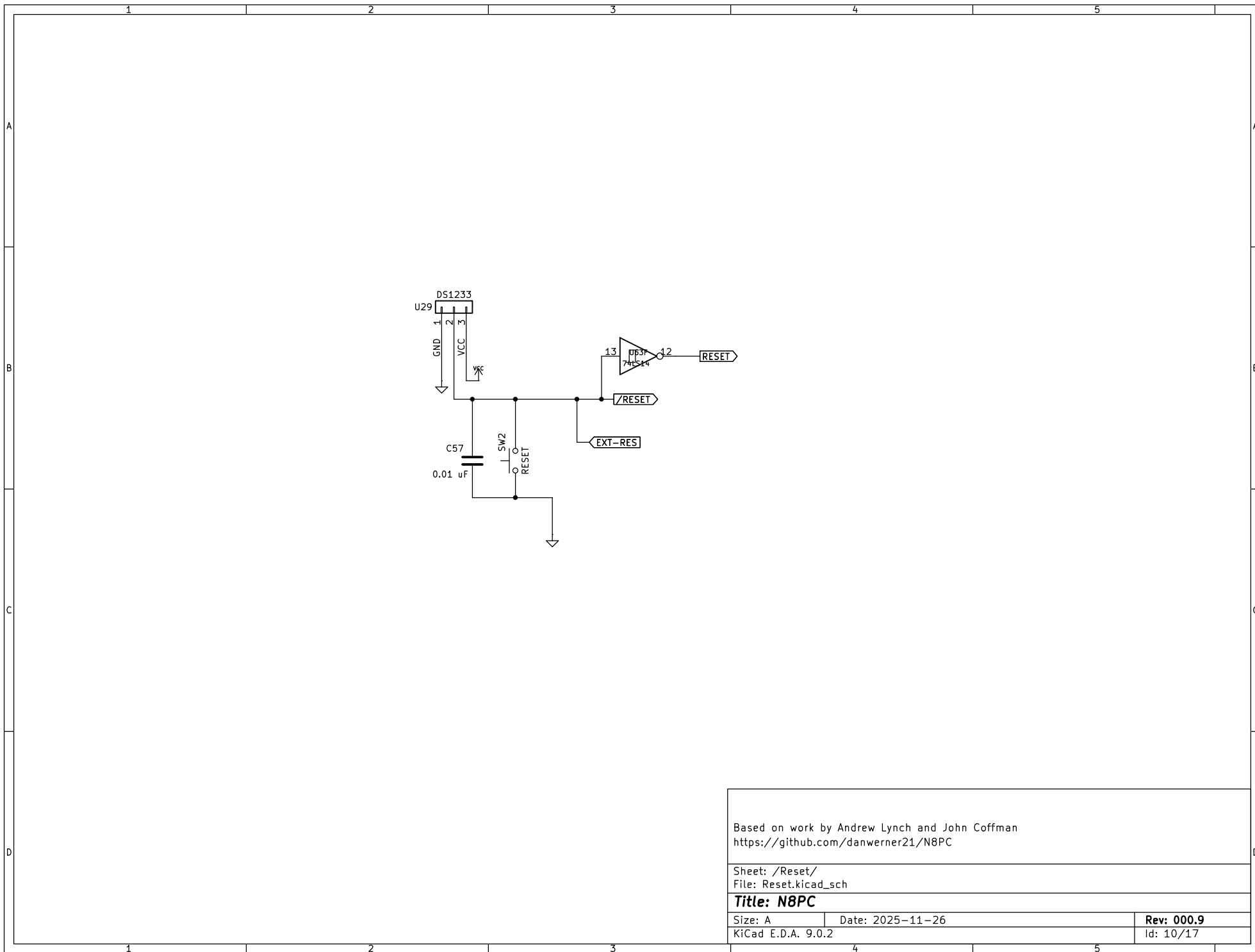
**Title: N8PC**

Size: USLedger Date: 2025-11-26

Rev: 000.9

KiCad E.D.A. 9.0.2

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

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

**Title: N8PC**

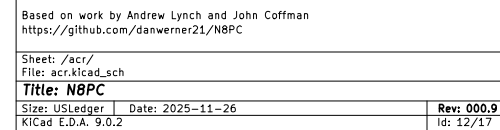
Size: A Date: 2025-11-26  
KiCad E.D.A. 9.0.2

Rev: 000.9  
Id: 10/17

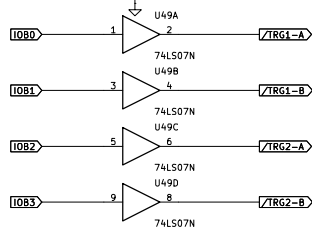
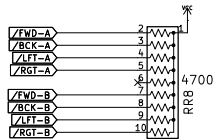
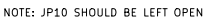




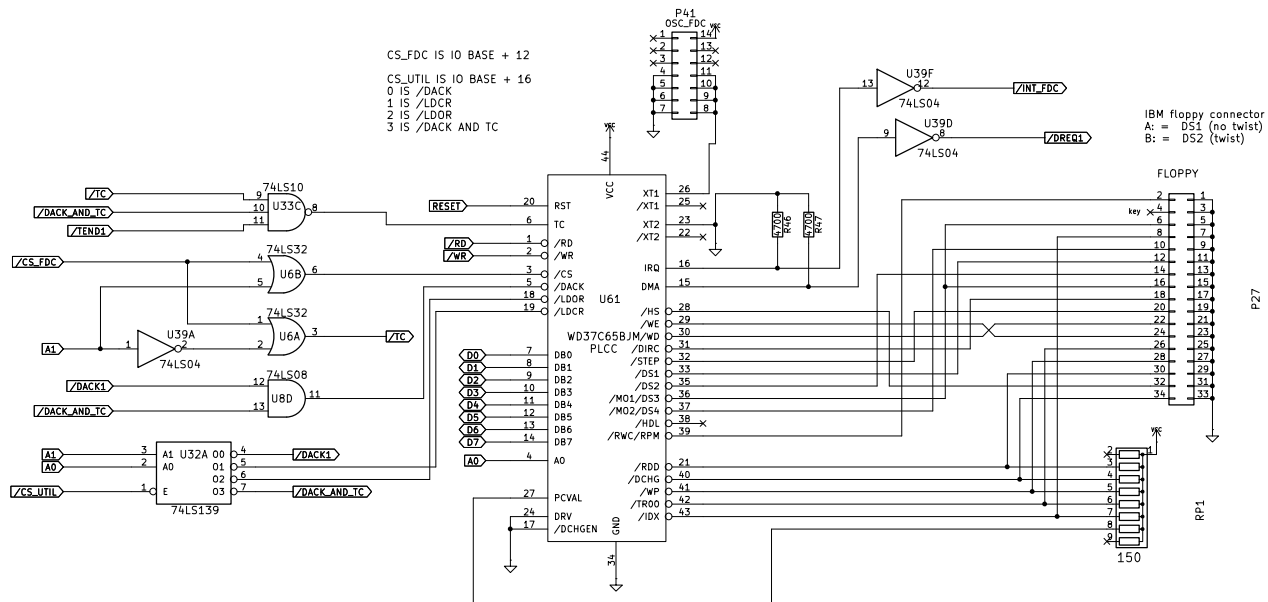




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Rev: 000.9



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

Rev: 000.9

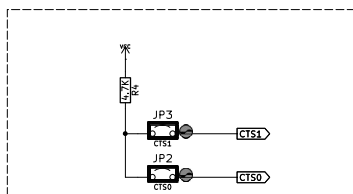
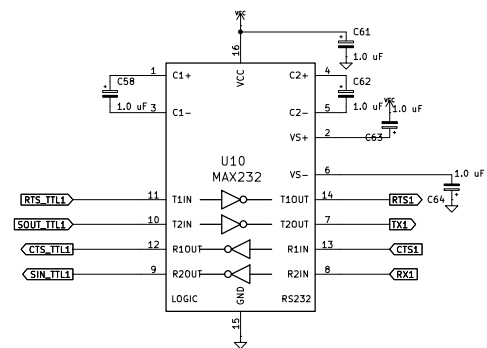
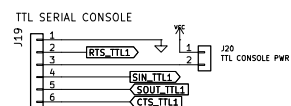
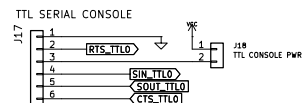
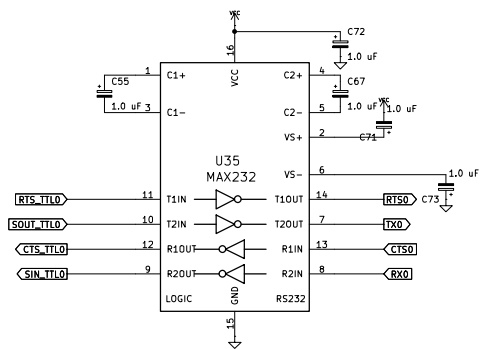
KiCad E.D.A. 9.0.2

Id: 14/17

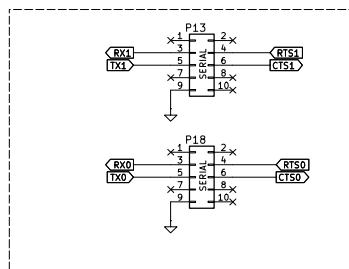
KNOWN TO WORK:  
- VT82C42N (VIA)







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: USLedger Date: 2025-11-26

Rev: 000.9

KiCad E.D.A. 9.0.2

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