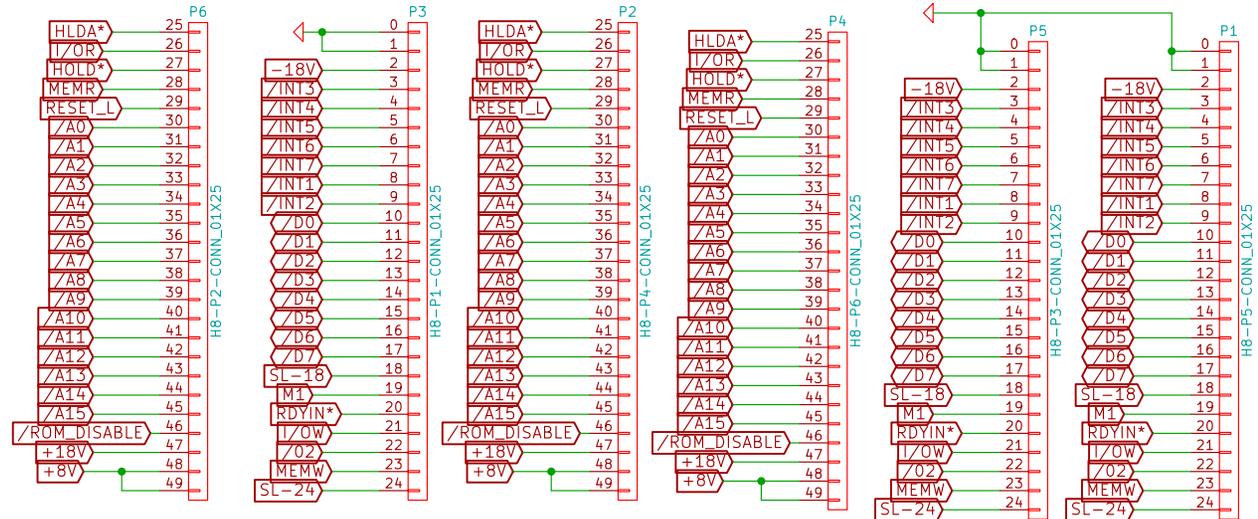


H8-5\_Schematic.sch



Fix 16550 RS232 polarity.  
 Added /DTR /INT3 Software control to boot HDOS on 8251A IC.  
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File: H8-5.sch

Sheet: /

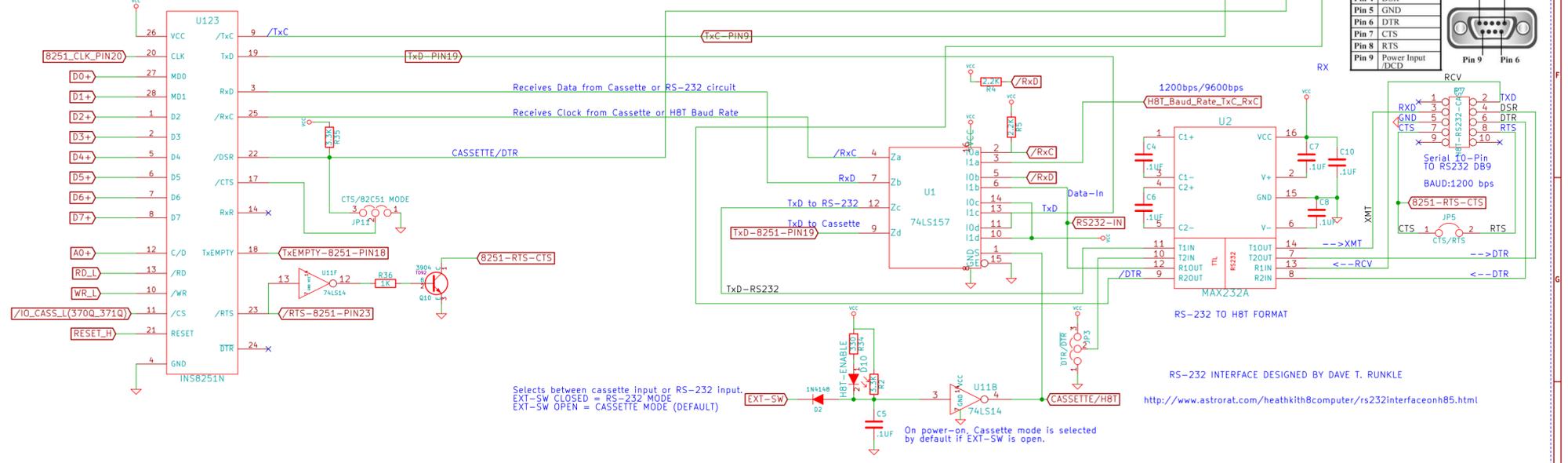
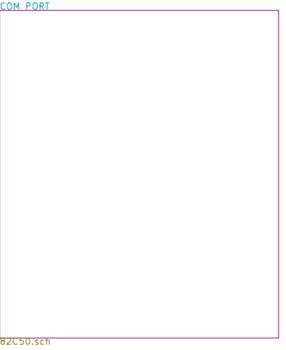
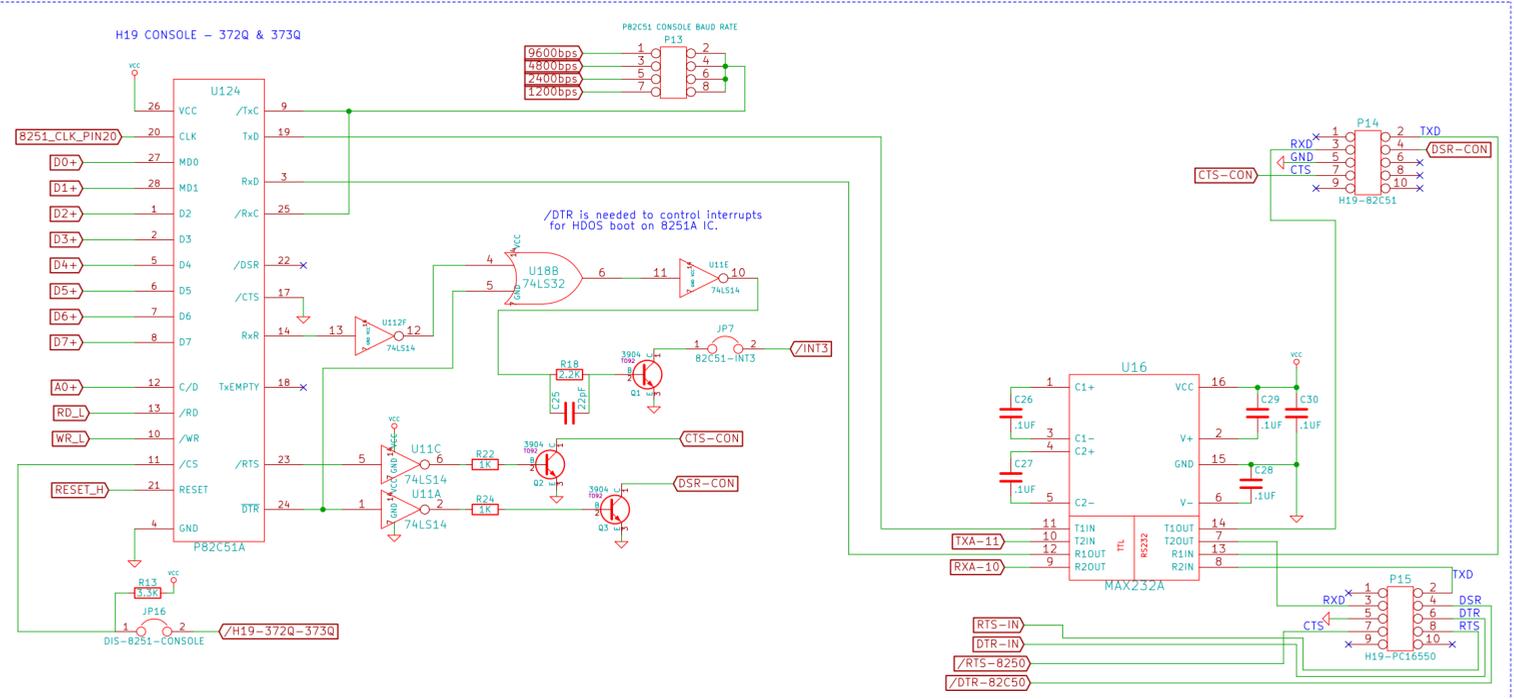
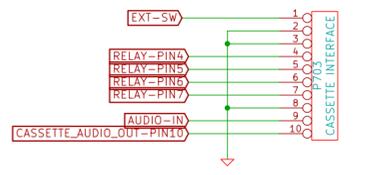
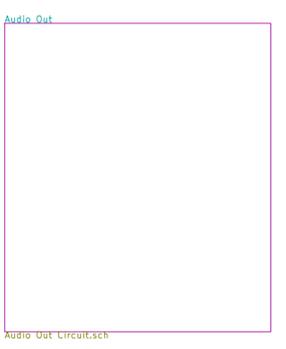
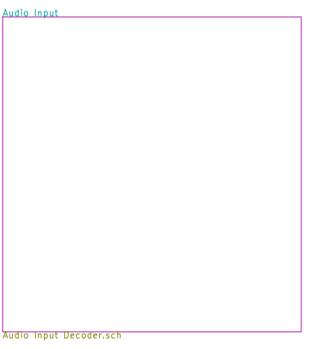
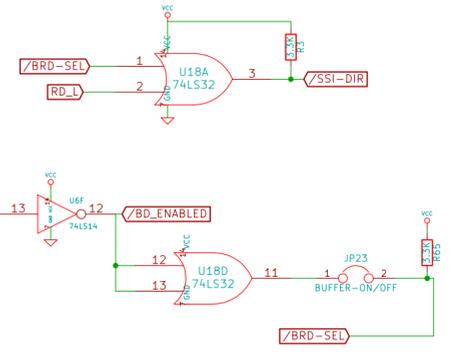
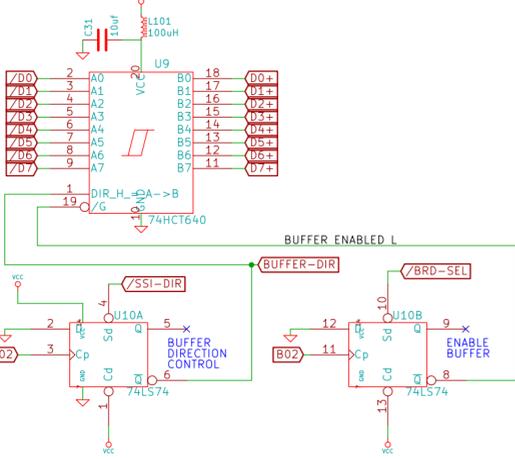
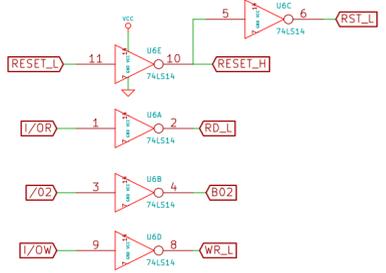
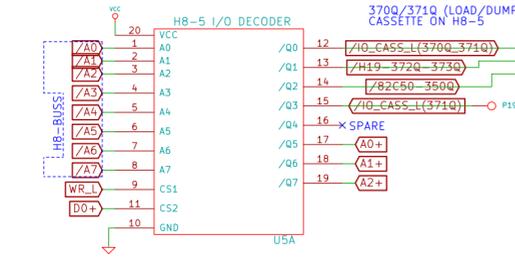
Title: H8-Z5-4 CONSOLE CASSETTE/STORAGE INTERFACE

Size: A Date: 8 feb 2026

Rev: 1.4

KiCad E.D.A.

Id: 1/6

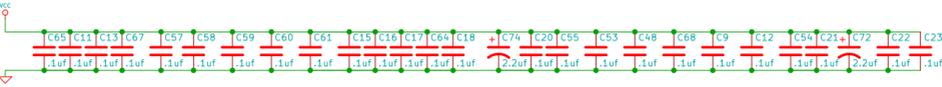


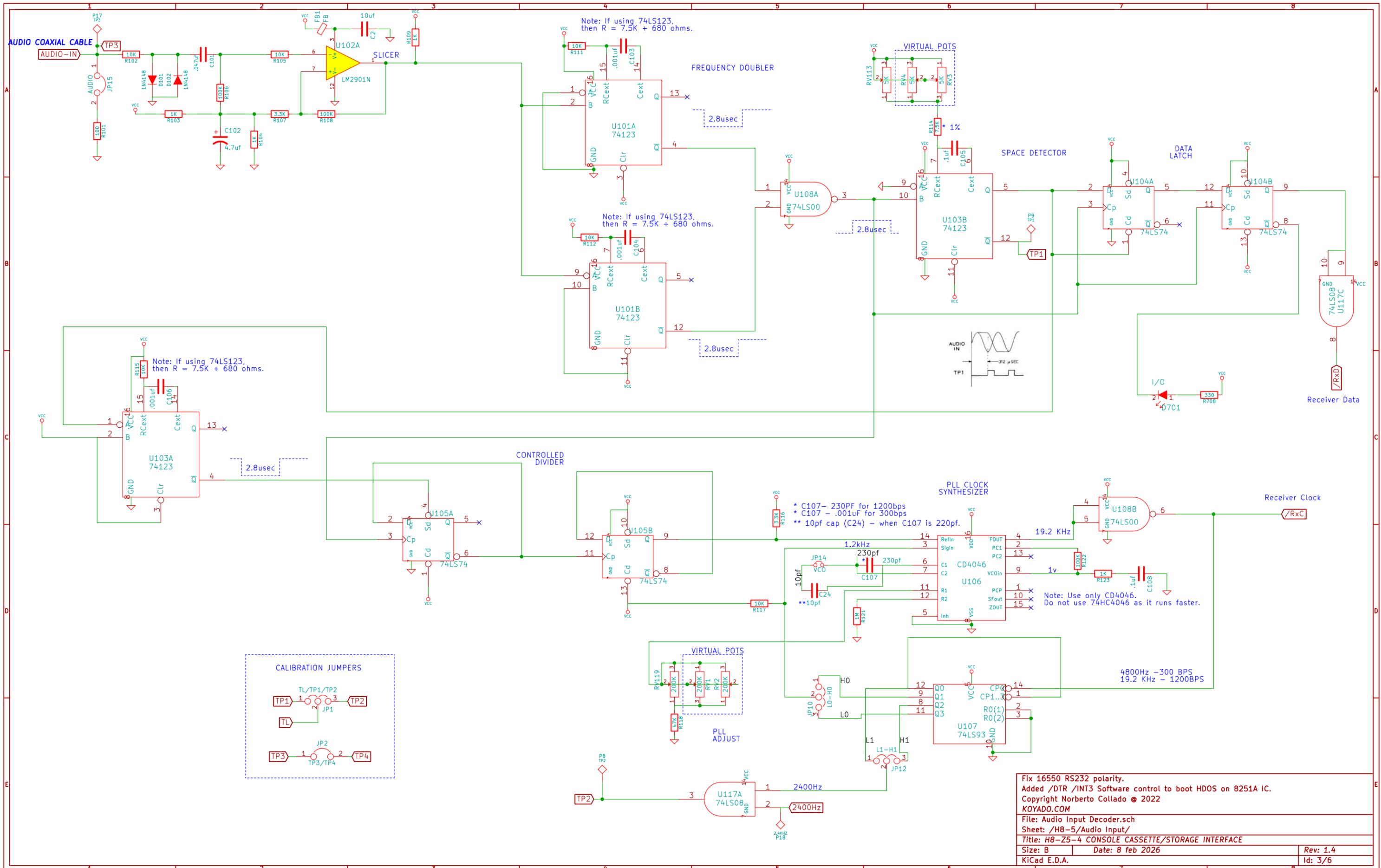
Pin	Signal	RS232 Pinout (9 Pin Female)
Pin 1	RI	Pin 5
Pin 2	TXD	Pin 1
Pin 3	RXD	Pin 2
Pin 4	DSR	Pin 3
Pin 5	GND	Pin 4
Pin 6	DTR	Pin 5
Pin 7	CTS	Pin 6
Pin 8	RTS	Pin 7
Pin 9	Power Input /DCD	Pin 8

Selects between cassette input or RS-232 input.  
 EXT-SW CLOSED = RS-232 MODE  
 EXT-SW OPEN = CASSETTE MODE (DEFAULT)

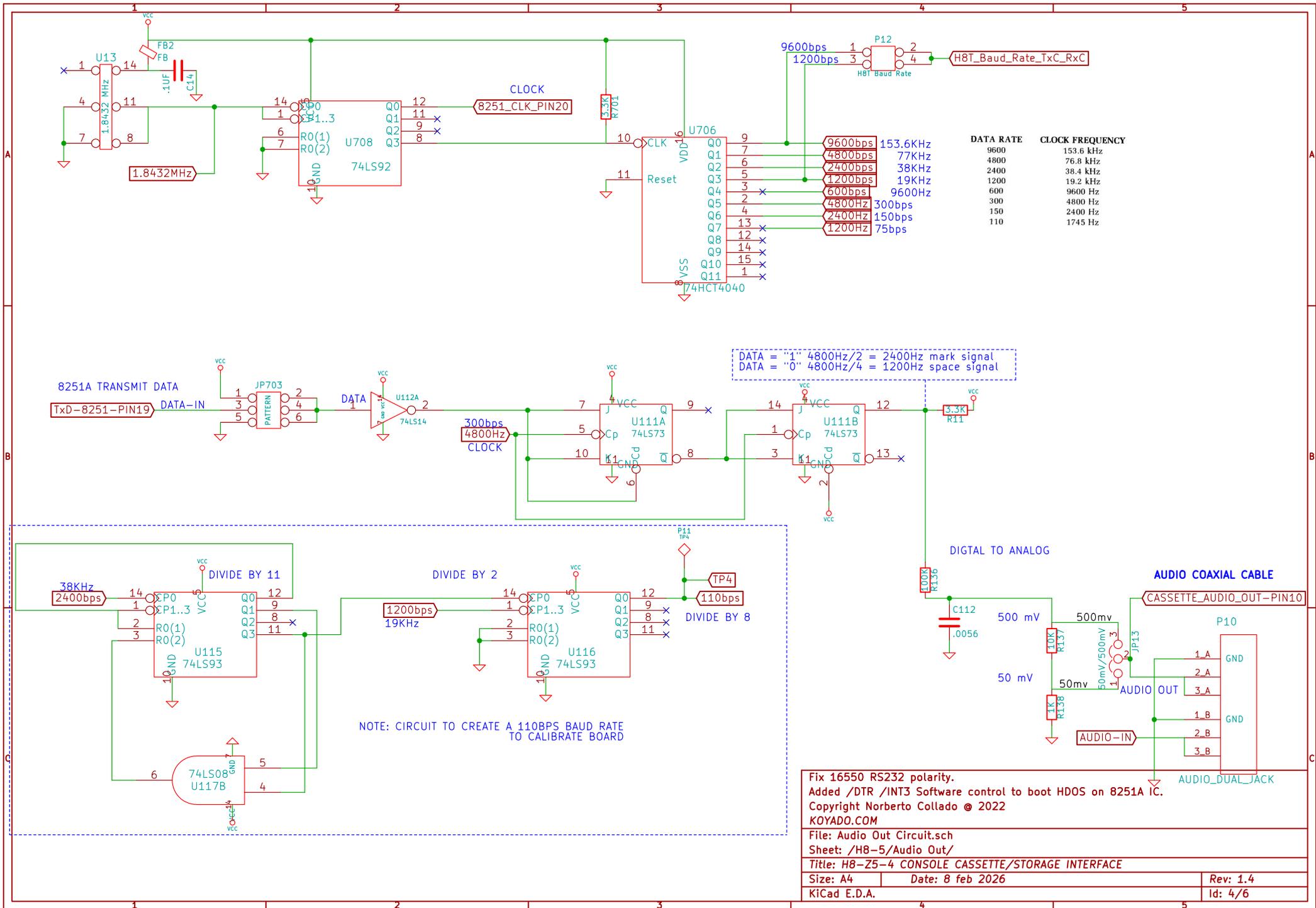
On power-on, Cassette mode is selected by default if EXT-SW is open.

RS-232 INTERFACE DESIGNED BY DAVE T. RUNKLE  
<http://www.astrorat.com/healthith8computer/rs232interfaceoh85.html>





Fix 16550 RS232 polarity.  
 Added /DTR /INT3 Software control to boot HD0S on 8251A IC.  
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 File: Audio Input Decoder.sch  
 Sheet: /H8-5/Audio Input/  
 Title: H8-25-4 CONSOLE CASSETTE/STORAGE INTERFACE  
 Size: B Date: 8 feb 2026 Rev: 1.4  
 KiCad E.D.A. Id: 3/6



DATA RATE	CLOCK FREQUENCY
9600	153.6 kHz
4800	76.8 kHz
2400	38.4 kHz
1200	19.2 kHz
600	9600 Hz
300	4800 Hz
150	2400 Hz
110	1745 Hz

DATA = "1" 4800Hz/2 = 2400Hz mark signal  
 DATA = "0" 4800Hz/4 = 1200Hz space signal

NOTE: CIRCUIT TO CREATE A 110BPS BAUD RATE TO CALIBRATE BOARD

Fix 16550 RS232 polarity.  
 Added /DTR /INT3 Software control to boot HDOS on 8251A IC.  
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