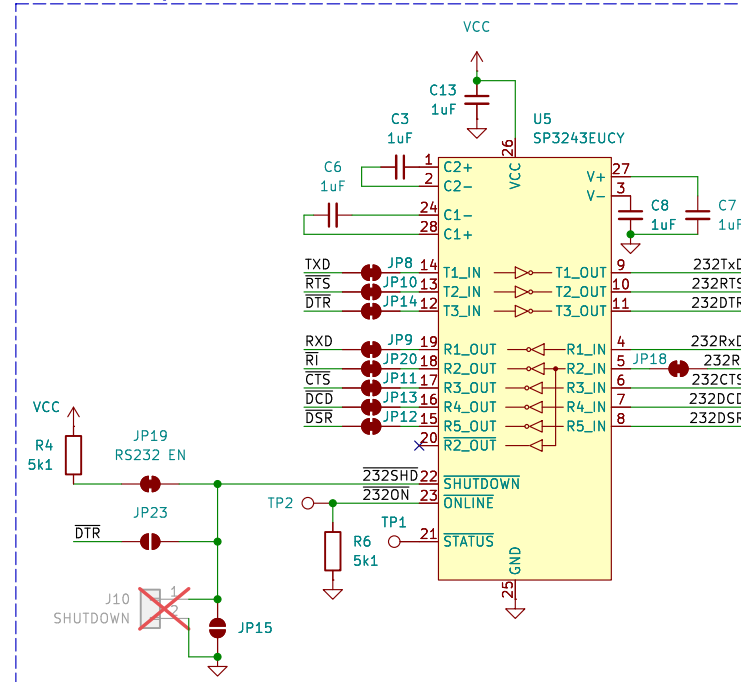


Pins commonly used for RS-232 (serial):

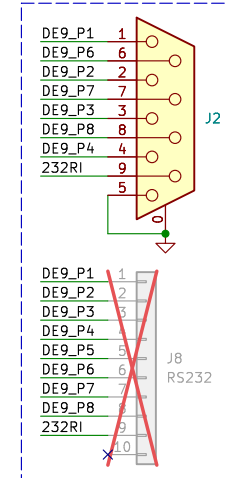
DB-25	DB-9	Signal Direction	Signal Name
1	x		Protective Ground
2	3	DTE-to-DCE	Transmitted Data
3	2	DCE-to-DTE	Received Data
4	7	DTE-to-DCE	Request To Send
5	8	DCE-to-DTE	Clear To Send
6	6	DCE-to-DTE	Data Set Ready
7	5		Signal Ground
8	1	DCE-to-DTE	Received Line Signal Detector (Carrier Detect)
20	4	DTE-to-DCE	Data Terminal Ready
22	9	DCE-to-DTE	Ring Indicator

<https://networking.ringofsaturn.com/Routers/NullModem.php>

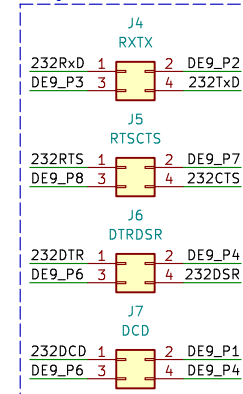
## RS232 Level Shifting



## RS232 Plugs



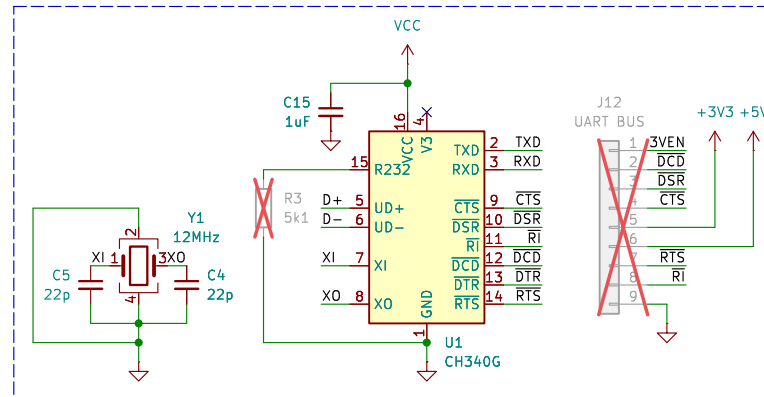
## Straight/Crossover selection



## Straight/Crossover selection

Two horizontal jumpers per block for straight  
Two vertical jumpers per block for crossover  
(Only 1 jumper on J7)

## UART



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ABNielsen.com

Sheet: /  
File: RS232-USB-C.kicad\_sch

**Title: Universal Serial Adapter**

Size: A4  
KiCad E.D.A. 8.0.6

Date:  
Rev: 0  
Id: 1/1