

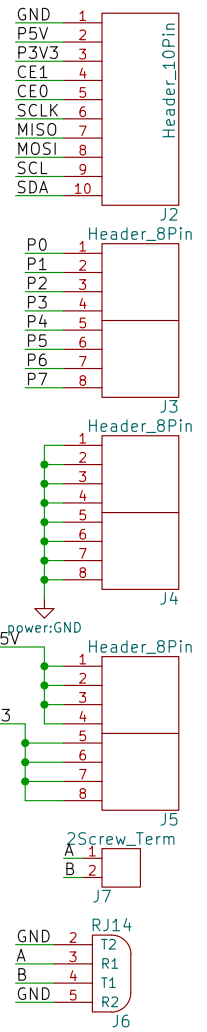
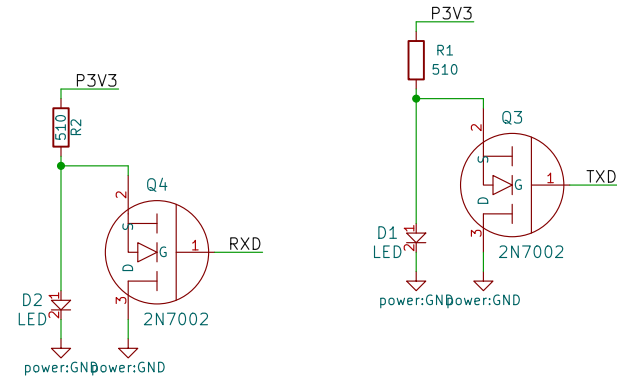
This is based on the official Raspberry Pi spec to be able to call an extension board a HAT.
<https://github.com/raspberrypi/hats/blob/master/designguide.md>

40-Pin HAT Connector

P3V3	1	P3V3	J1	2	P5V
SDA	3	BCM2	P5V	4	P5V
SCL	5	BCM3	GND	6	GND
P7	7	BCM4	BCM14	8	TXD
GND	9	GND	BCM15	10	RXD
P0	11	BCM17	BCM18	12	P1
P2	13	BCM27	BCM23	14	GND
P3	15	BCM22	GND	16	P4
P3V3	17	BCM22	BCM23	18	P5
MOSI	19	P3V3	BCM24	20	GND
MISO	21	BCM10	GND	22	P6
SCLK	23	BCM9	BCM25	24	CE0
GND	25	BCM11	BCM8	26	CE1
TXD_2	27	GND	BCM7	28	
	29	BCM0	BCM1	30	GND
	31	BCM5	GND	32	
	33	BCM6	BCM12	34	GND
	35	BCM13	GND	36	
	37	BCM19	BCM16	38	
GND	39	BCM26	BCM20	40	
		GND	BCM21		

5V Powered HAT Protection

This is the recommended 5V rail protection for a HAT with power going to the Pi.
See <https://github.com/raspberrypi/hats/blob/master/designguide.md#back-powering-the-pi-via-the-j8-gpio-header>



Mounting Holes

