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

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

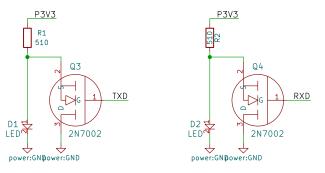
Mounting Holes

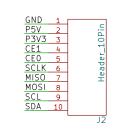


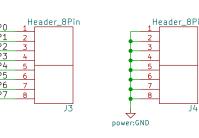


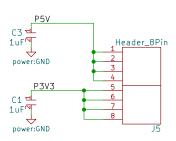
40-Pin HAT Connector

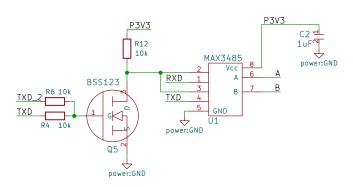
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P3V3	raspberry 1	pi_hat:0X4	40HAT J1 P5V	1 2	P5V
SDA	3	BCM2	P5V	4	P5V
SCL	5	BCM2 BCM3	GND	6	GND
P7	7	BCM3	BCM14	8	TXD
GND	9	GND	BCM14 BCM15	10	RXD
P0 P2 P3	11	BCM17	BCM13	12	P1
P2	13	BCM17 BCM27	GND	14	GND
Р3	15	BCM27	BCM23	16	Р4
P3V3	17	P3V3	BCM24	18	P5
MOSI	19	BCM10	GND	20	GND
MISO	21	ВСМ9	BCM25	22	P6
SCLK	23	BCM11	BCM8	24	CE0
GND	25	GND	BCM7	26	CE1
	× 27	BCM0	BCM1	28 ×	
TXD_2	^ 29	BCM5	GND	30	GND
	× 31	BCM6	BCM12	32 ×	
	× 33	BCM13	GND	34	GND
	~ 35	BCM19	BCM16	36 ×	
	× 37	BCM26	BCM20	38 🗸	
GND	<u> </u>	GND	BCM21	40 ×	

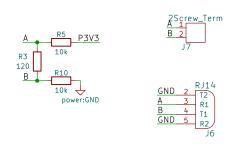












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