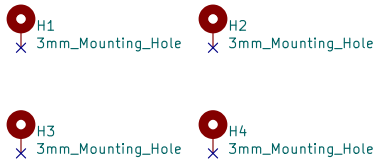


This is based on the official Raspberry Pi spec to be able to call an extension board a HAT.  
<https://github.com/raspberrypi/hats/blob/master/designguide.md>

## 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

raspberrypi_hat:OX40HAT			
P3V3	1	P3V3	2
SDA	3	BCM2	P5V
SCL	5	BCM3	P5V
P7	7	BCM4	GND
GND	9	BCM14	8
P0	11	BCM15	TXD
P2	13	BCM17	10
P3	15	BCM18	RXD
P3V3	17	BCM23	P1
MOSI	19	BCM27	GND
MISO	21	BCM22	14
SCLK	23	BCM24	P4
GND	25	BCM25	P5
TXD_2	27	GND	20
TXD_2	29	BCM9	GND
31	31	BCM26	P6
33	33	BCM7	CE0
35	35	BCM1	CE1
37	37	BCM12	32
GND	39	BCM13	34
		BCM19	36
		BCM20	38
		BCM21	40

