

This is based on a template from branch RPi_HAT in:
<https://github.com/jonbuford/kicad-library.git>

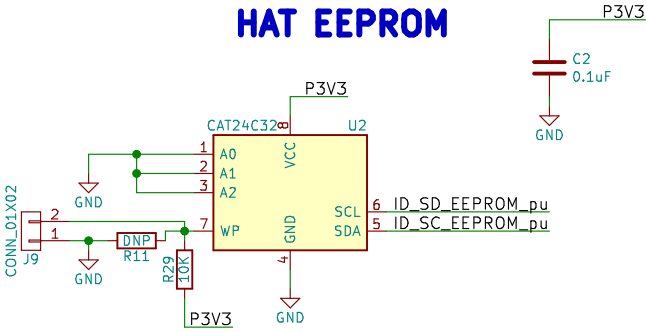
This is based on the official Raspberry Pi spec to be able to call an extension board a HAT.
<https://github.com/raspberrypi/hats/blob/master/designguide.md>

40-Pin HAT Connector

<https://www.raspberrypi.org/documentation/usage/gpio/>

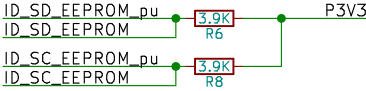
Socket_Strips:Socket_Strip_Straight_2x20			
P3V3	1	40HAT	J3
GPI02_SDA	3	BCM2	P5V
GPI03_SCL	5	BCM3	P5V
GPI04_TXD3	7	BCM4	GND
GND	9	BCM14	GPI014_TXD
GPI017_J1	11	BCM15	GPI015_RXD
GPI027_J1	13	BCM17	
GPI022_J1	15	BCM18	
P3V3	17	BCM27	GND
GPI010_MOSI	19	BCM22	GPI023_J1
GPI09_MISO	21	BCM23	GPI024_RESET
GPI011_SCLK	23	BCM24	GND
GND	25	GND	GND
ID_SD_EEPROM	27	BCM10	GPI025_DATA_OR_CMD
GPI05_RXD3	29	BCM9	GPI08_TFT_CS
	31	BCM11	GPI07_SD_CS
	33	BCM8	ID_SC_EEPROM
	35	BCM7	GND
	37	BCM5	GND
	39	BCM6	GPI012_PWM0_BACKLIGHT
		BCM13	GND
		BCM19	GND
		BCM16	GPI016_Status_LED
		BCM26	
		BCM20	
		BCM21	

HAT EEPROM

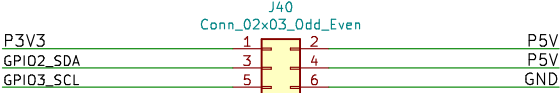


Pullup Resistors

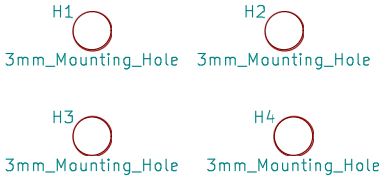
These are just pullup resistors for the I2C bus on the EEPROM.
The resistor values are per the HAT spec.



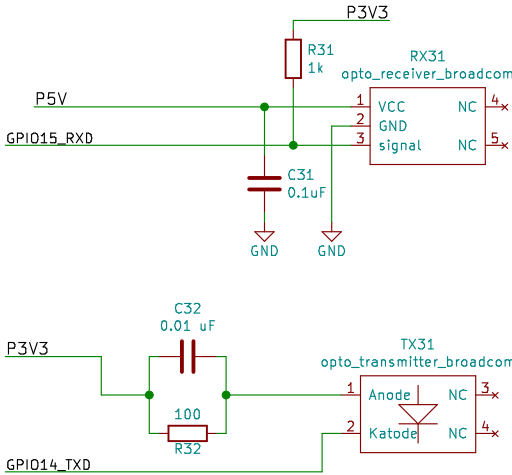
6-Pin HAT Connector for I2C Real time clock



Mounting Holes



Opto transmitters/receivers



5V Power

