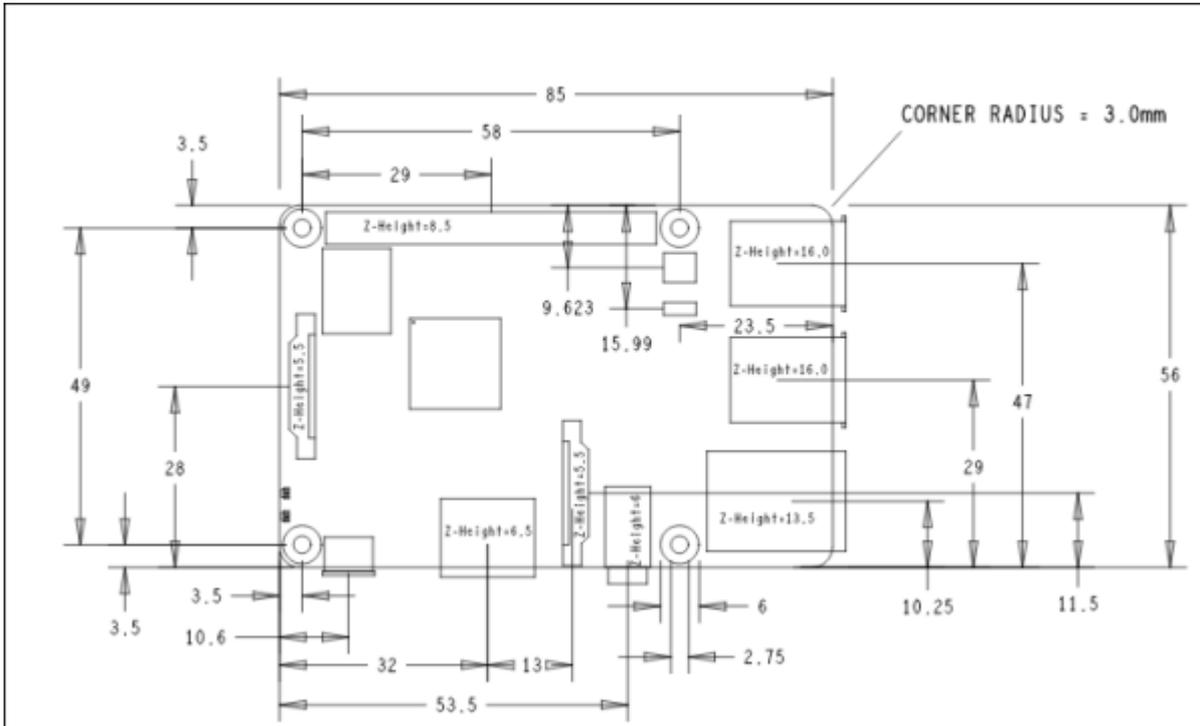


Gateway RAK831

Shield para conexión a Raspberry y GPS

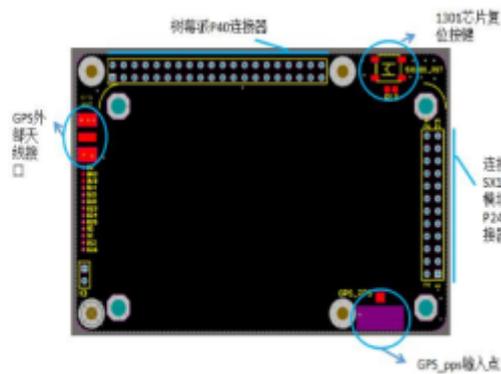
Medidas de raspberry pi 3 b+

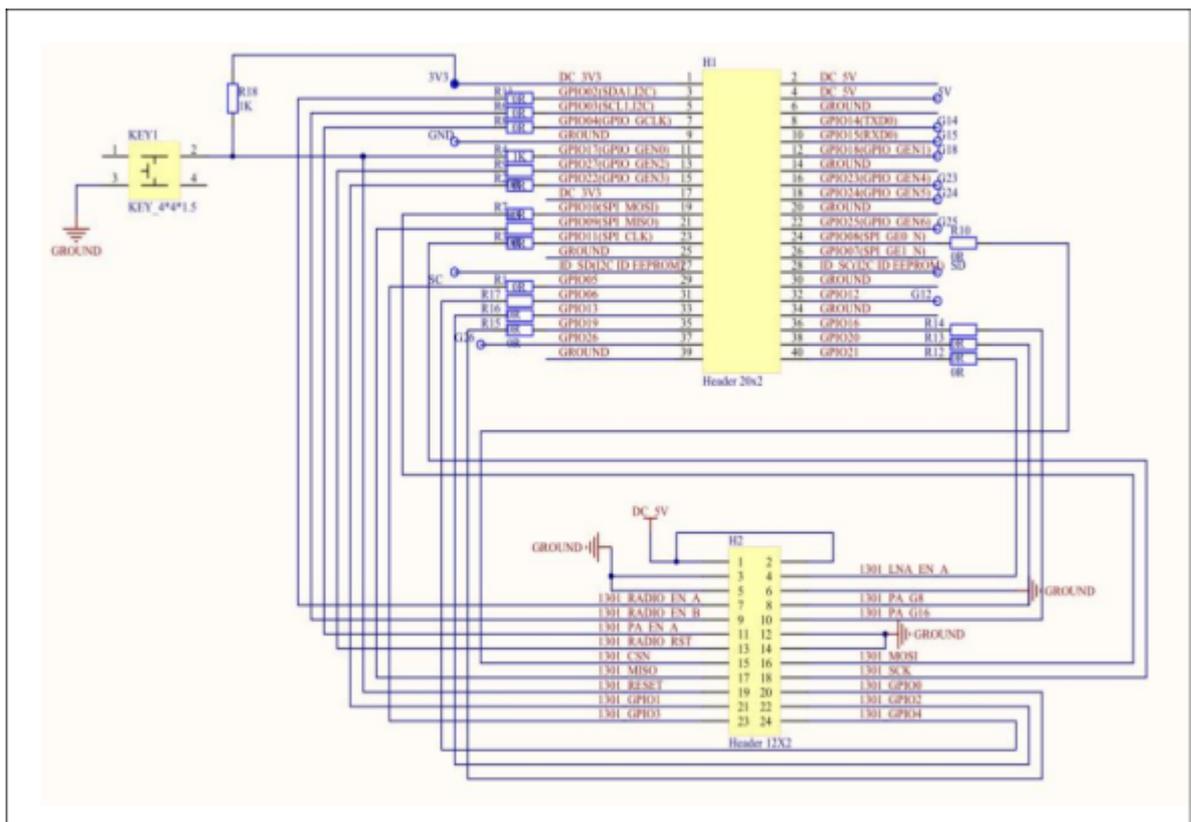


1、SX1301 模块管脚和树莓派管脚对照表

树莓派管脚列表		树莓派 ADPin 引脚对照表		SX1301 管脚列表	
引脚名称	BOARD PIN	引脚名称	BOARD PIN	引脚名称	DC, SW
1301_3A0T0_PX_6	P7	3.3V	1	3.3V	3.3V
1301_3A0T0_PX_8	P9	NC1	3	NC1	NC1
1301_PX_8A_A	P11	GPIO 7	7	GPIO 7	GPIO 7
1301_3A0T0_PX16	GND	GND	9	GND	GND
1301_3A0T0_PX19	P19	GPIO 10	10	GPIO 10	GPIO 10
1301_3A0T0_PX15	P15	GPIO 11	11	GPIO 11	GPIO 11
1301_SF101	P24	GPIO 12	12	GPIO 12	GPIO 12
1301_SF101	P24	GPIO 13	13	GPIO 13	GPIO 13
1301_SF101	P24	GPIO 14	14	GPIO 14	GPIO 14
1301_SF101	P24	GPIO 15	15	GPIO 15	GPIO 15
1301_SF101	P24	GPIO 16	16	GPIO 16	GPIO 16
1301_SF101	P24	GPIO 17	17	GPIO 17	GPIO 17
1301_SF101	P24	GPIO 18	18	GPIO 18	GPIO 18
1301_SF101	P24	GPIO 19	19	GPIO 19	GPIO 19
1301_SF101	P24	GPIO 20	20	GPIO 20	GPIO 20
1301_SF101	P24	GPIO 21	21	GPIO 21	GPIO 21
1301_SF101	P24	GPIO 22	22	GPIO 22	GPIO 22
1301_SF101	P24	GPIO 23	23	GPIO 23	GPIO 23
1301_SF101	P24	GPIO 24	24	GPIO 24	GPIO 24
1301_SF101	P24	GPIO 25	25	GPIO 25	GPIO 25
1301_SF101	P24	GPIO 26	26	GPIO 26	GPIO 26
1301_SF101	P24	GPIO 27	27	GPIO 27	GPIO 27
1301_SF101	P24	GPIO 28	28	GPIO 28	GPIO 28
1301_SF101	P24	GPIO 29	29	GPIO 29	GPIO 29
1301_SF101	P24	GPIO 30	30	GPIO 30	GPIO 30
1301_SF101	P24	GPIO 31	31	GPIO 31	GPIO 31
1301_SF101	P24	GPIO 32	32	GPIO 32	GPIO 32
1301_SF101	P24	GPIO 33	33	GPIO 33	GPIO 33
1301_SF101	P24	GPIO 34	34	GPIO 34	GPIO 34
1301_SF101	P24	GPIO 35	35	GPIO 35	GPIO 35
1301_SF101	P24	GPIO 36	36	GPIO 36	GPIO 36
1301_SF101	P24	GPIO 37	37	GPIO 37	GPIO 37
1301_SF101	P24	GPIO 38	38	GPIO 38	GPIO 38
1301_SF101	P24	GPIO 39	39	GPIO 39	GPIO 39
1301_SF101	P24	GPIO 40	40	GPIO 40	GPIO 40

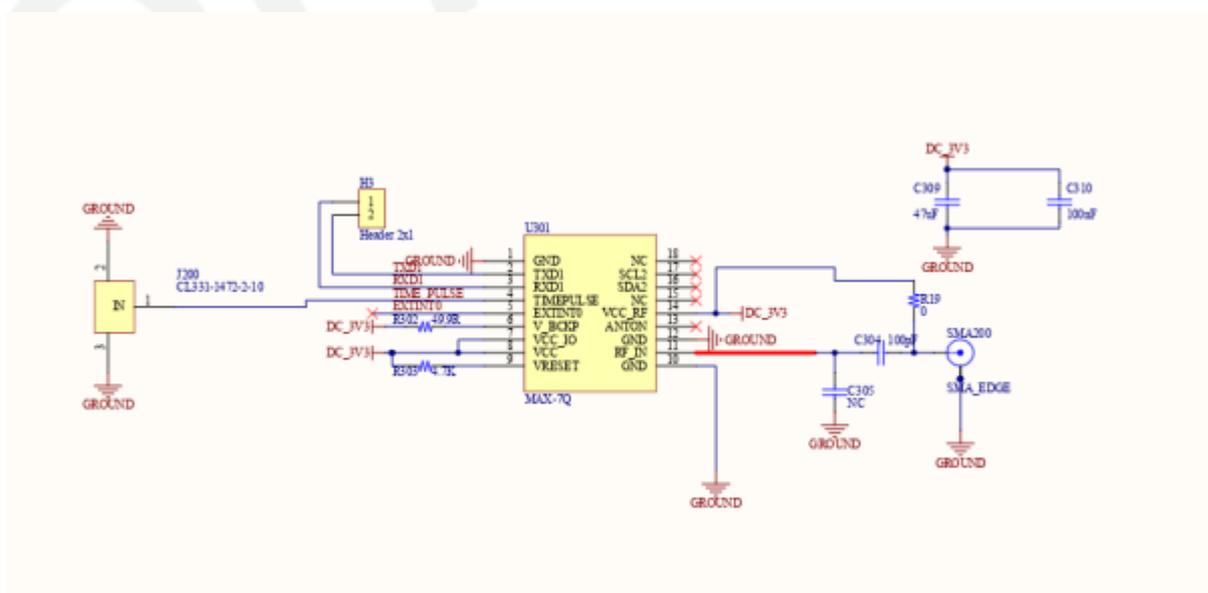
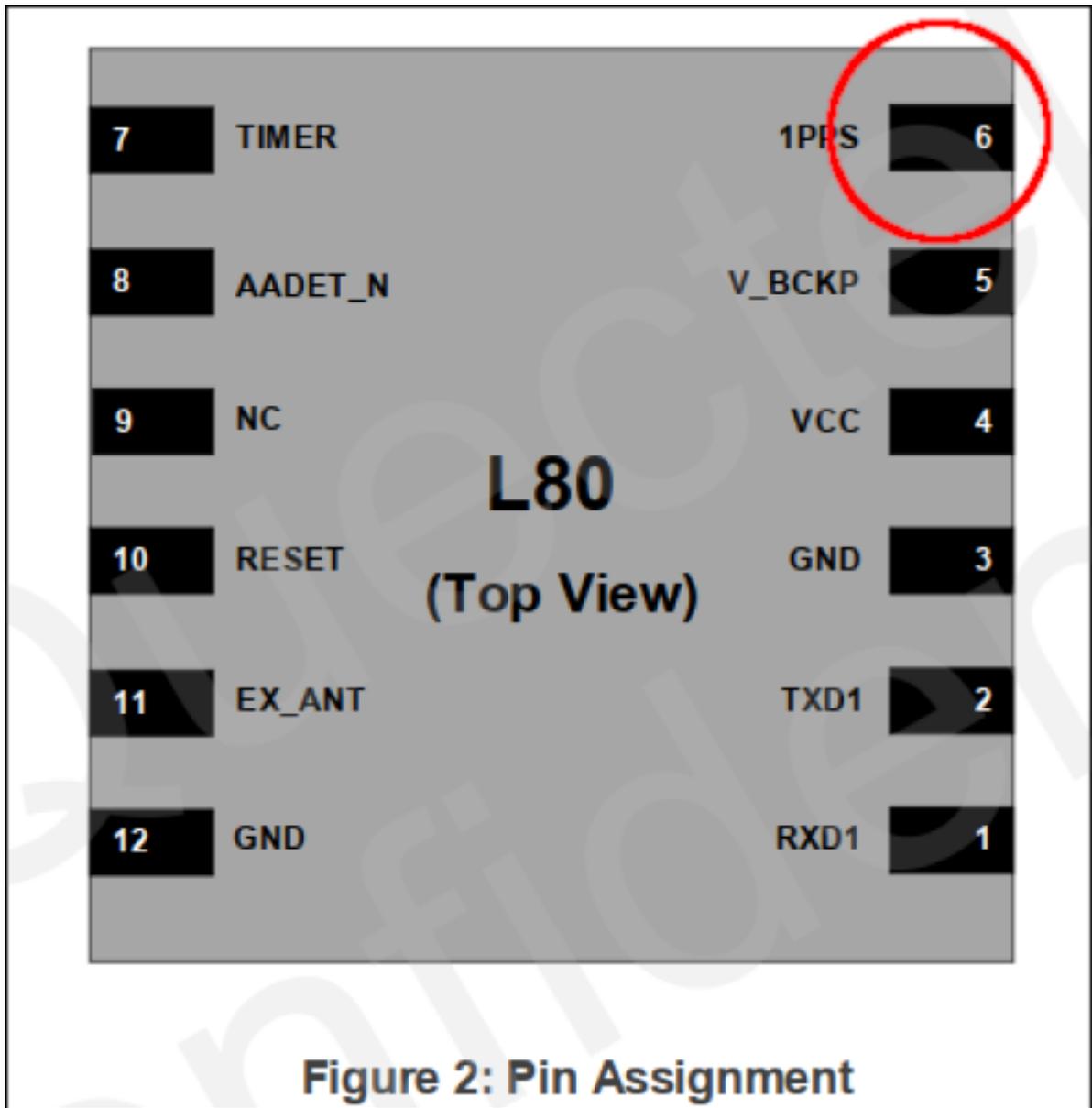
2、管脚对应位置







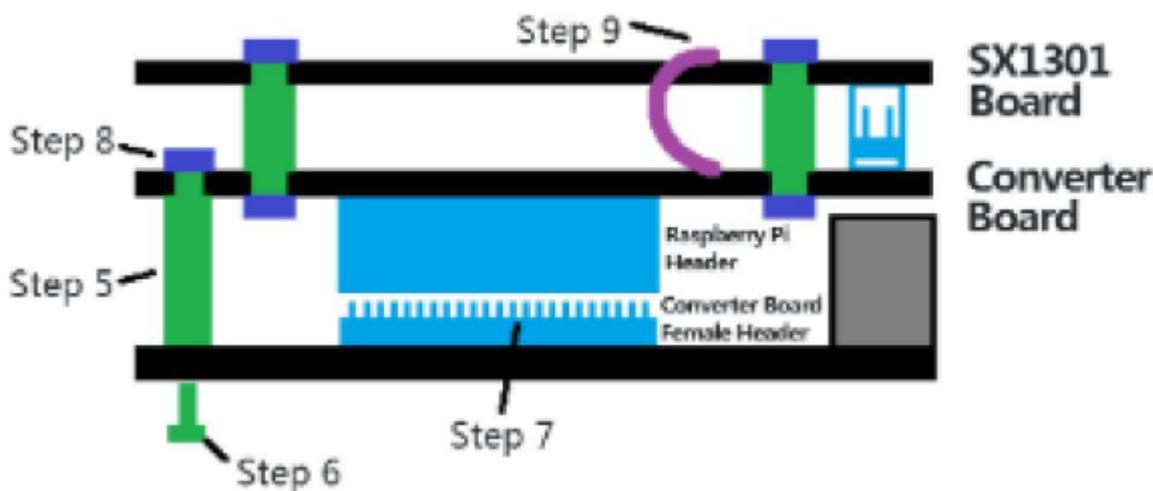
Pin PPS Quectel I80





Converter Board (Raspberry)

With Max-7Q GPS Module and GPS Antenna



- <https://hackaday.io/project/20482-designing-a-raspberry-pi-hat>

RAK 831 Pin	Description on silk screen	RPI physical pin
1	+5V	2
3	GND	6
19	RST (Resent pin)	22
18	SCK (SPI Clock)	23
17	MISO	21
16	MOSI	19
15	CSN (Chip Select)	24

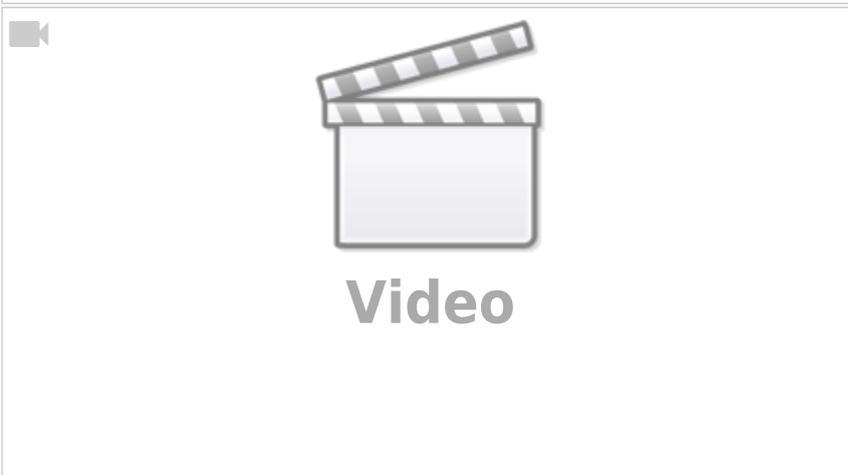
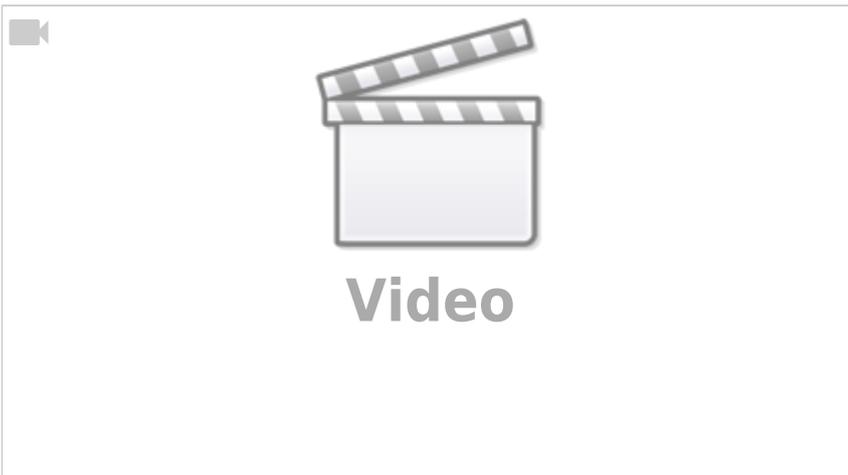
Conexión a la raspberry pi

rpi v3 to rak 831 pin connection

- <http://docs.rakwireless.com/cn/LoRa/RAK831-LoRa-Gateway/B应用笔记/转接板接线说明.pdf>
- <https://github.com/IRNAS/RPi-HAT-RAK831-PoE>
- **Antena** → <https://github.com/IRNAS/ttn-irnas-gw>

Referentes

- <https://github.com/RAKWireless/RAK2245-RAK831-LoRaGateway-RPi-Raspbian-OS>
- <https://www.thethingsnetwork.org/forum/t/the-hard-rak831-cafe-part-1/8464>
- <https://github.com/Edzelf/RAK831-LoRa-gateway/blob/master/LoRa%20gateway%20with%20Orange%20Pi%20and%20RAK831.pdf>
- https://github.com/xesscorp/RPi_Hat_Template
- http://docs.rakwireless.com/en/LoRa/RAK831-LoRa-Gateway/Hardware-Specification/Raspberry%20Pi%20Switchboard%20Schematic_20171218.pdf
- https://www.quectel.com/UploadImage/Downlad/L80_Hardware_Design_V1.1.pdf
- <http://mtnstormdaq.com/blog/2012/10/gps-pps-use-as-a-time-reference/>
- <http://docs.rakwireless.com/en/LoRa/RAK831-LoRa-Gateway/Application-Notes/Interface-Panel-Installation-Instructions.pdf>
- <https://www.rakwireless.com/en/download/IoT-Solution-Kit/LoRaWAN%20Development%20Kit>



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