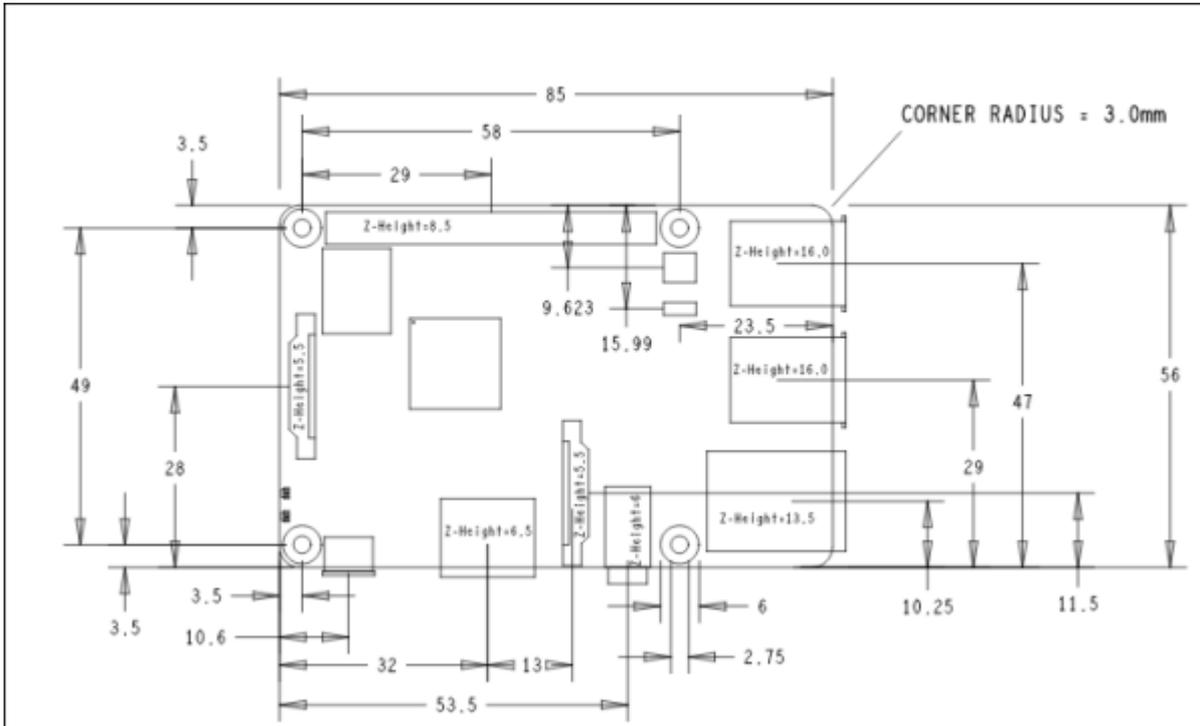


# Gateway RAK831

## Shield para conexión a Raspberry y GPS

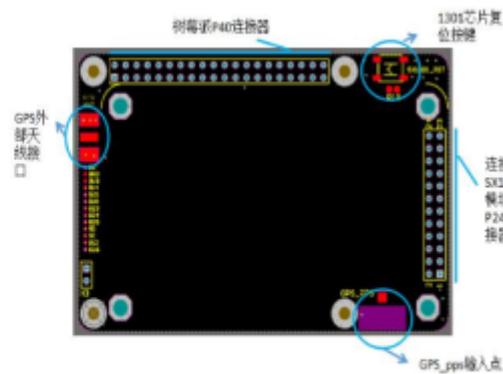
### Medidas de raspberry pi 3 b+

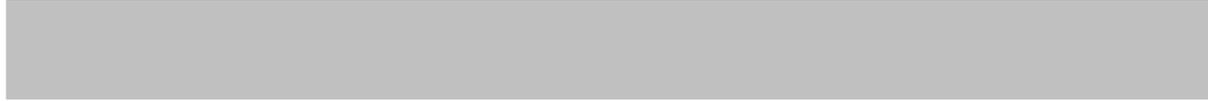
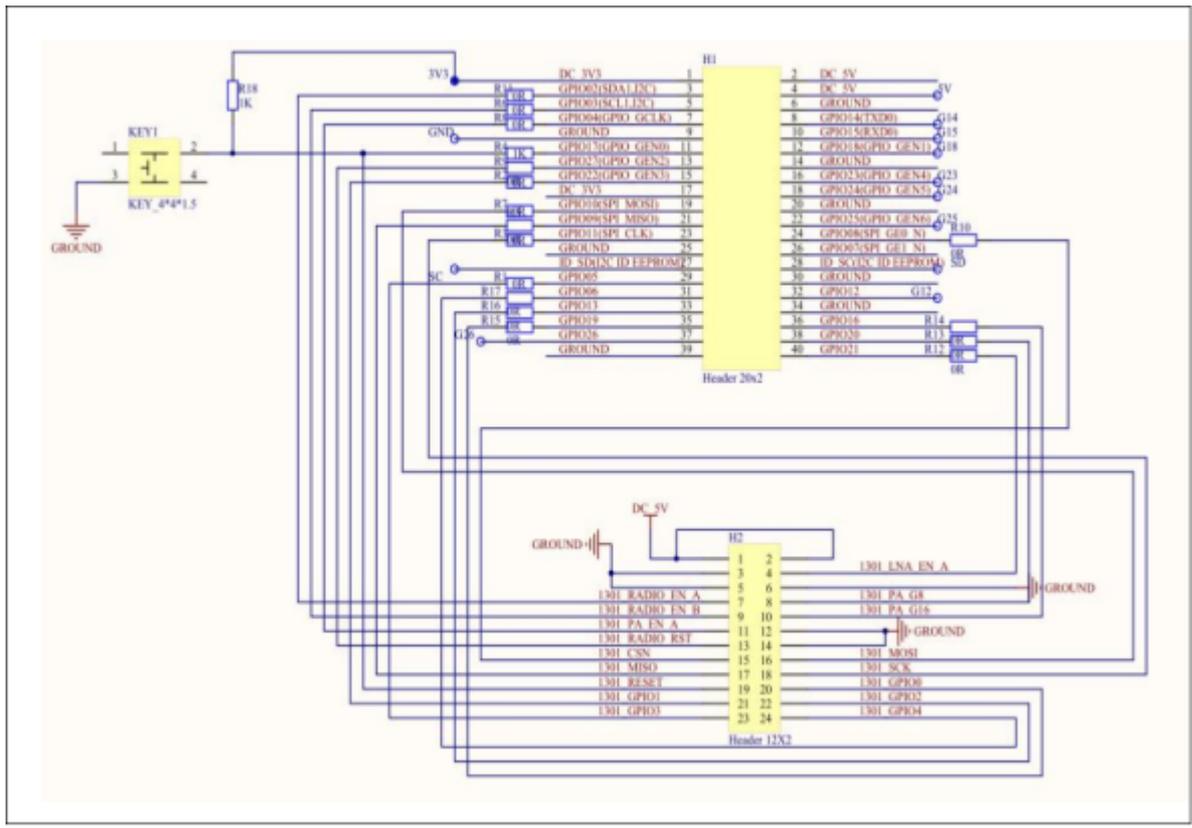


#### 1、SX1301 模块管脚和树莓派管脚对照表

树莓派管脚列表		树莓派 ADPin 引脚对照表		SX1301 管脚列表	
引脚名	管脚号	BOARD PIN	引脚名	引脚名	DC, SW
3.3V	1	2	3V	PS1P2	DC, SW
GPIO 4	3	4	5V		
GPIO 5	4	5	GPIO 1	GPIO1	280
GPIO 6	5	6	GPIO 2	GPIO2	280
GPIO 7	6	7	GPIO 3	GPIO3	280
GPIO 8	7	8	GPIO 4	GPIO4	280
GPIO 9	8	9	GPIO 5	GPIO5	280
GPIO 10	9	10	GPIO 6	GPIO6	280
GPIO 11	10	11	GPIO 7	GPIO7	280
GPIO 12	11	12	GPIO 8	GPIO8	280
GPIO 13	12	13	GPIO 9	GPIO9	280
GPIO 14	13	14	GPIO 10	GPIO10	280
GPIO 15	14	15	GPIO 11	GPIO11	280
GPIO 16	15	16	GPIO 12	GPIO12	280
GPIO 17	16	17	GPIO 13	GPIO13	280
GPIO 18	17	18	GPIO 14	GPIO14	280
GPIO 19	18	19	GPIO 15	GPIO15	280
GPIO 20	19	20	GPIO 16	GPIO16	280
GPIO 21	20	21	GPIO 17	GPIO17	280
GPIO 22	21	22	GPIO 18	GPIO18	280
GPIO 23	22	23	GPIO 19	GPIO19	280
GPIO 24	23	24	GPIO 20	GPIO20	280
GPIO 25	24	25	GPIO 21	GPIO21	280
GPIO 26	25	26	GPIO 22	GPIO22	280
GPIO 27	26	27	GPIO 23	GPIO23	280
GPIO 28	27	28	GPIO 24	GPIO24	280
GPIO 29	28	29	GPIO 25	GPIO25	280
GPIO 30	29	30	GPIO 26	GPIO26	280
GPIO 31	30	31	GPIO 27	GPIO27	280
GPIO 32	31	32	GPIO 28	GPIO28	280
GPIO 33	32	33	GPIO 29	GPIO29	280
GPIO 34	33	34	GPIO 30	GPIO30	280
GPIO 35	34	35	GPIO 31	GPIO31	280
GPIO 36	35	36	GPIO 32	GPIO32	280
GPIO 37	36	37	GPIO 33	GPIO33	280
GPIO 38	37	38	GPIO 34	GPIO34	280
GPIO 39	38	39	GPIO 35	GPIO35	280
GPIO 40	39	40	GPIO 36	GPIO36	280

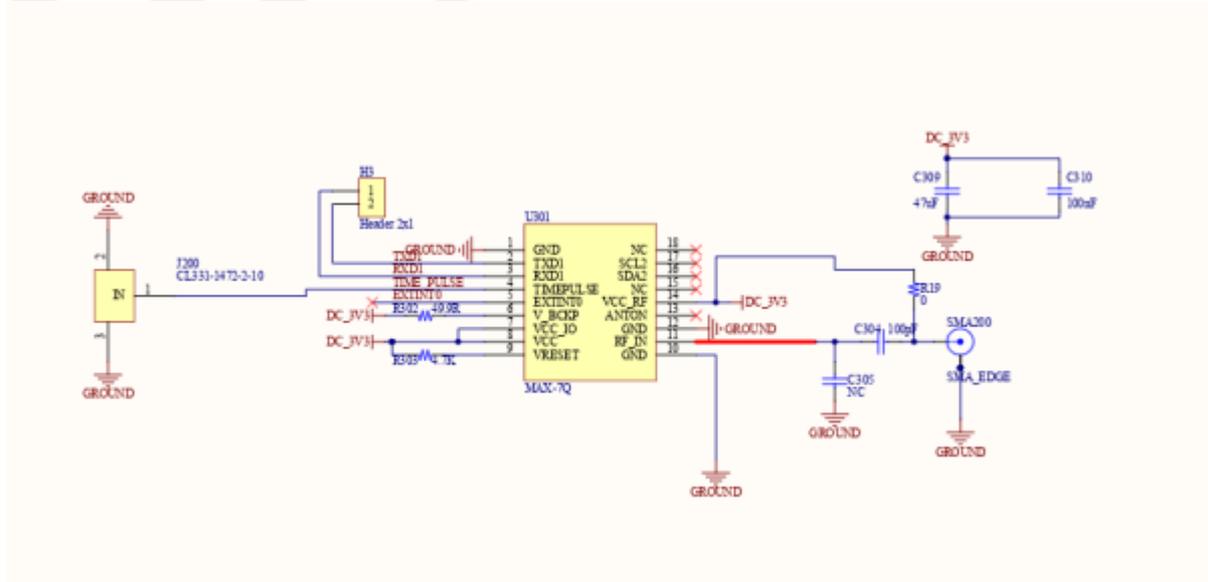
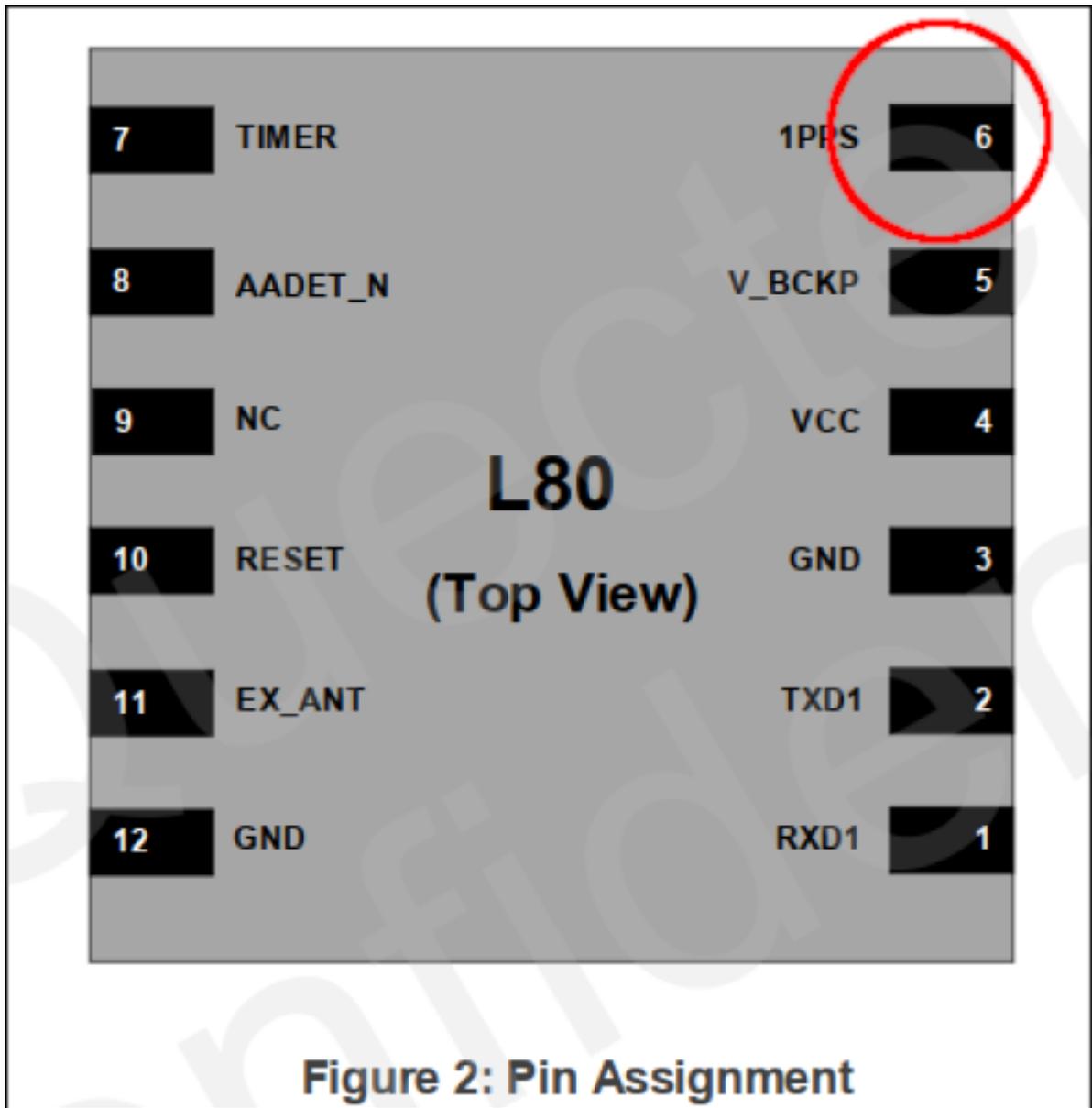
#### 2、管脚对应位置







**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](https://github.com/xesscorp/RPi_Hat_Template)
- [http://docs.rakwireless.com/en/LoRa/RAK831-LoRa-Gateway/Hardware-Specification/Raspberry%](http://docs.rakwireless.com/en/LoRa/RAK831-LoRa-Gateway/Hardware-Specification/Raspberry%20Pi)

[20Pi%20Switchboard%20Schematic\\_20171218.pdf](#)

- [https://www.quectel.com/UploadImage/Downlad/L80\\_Hardware\\_Design\\_V1.1.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/>



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