

Redes de datos LPWA

RFC <https://tools.ietf.org/wg/lpwan/>

<https://github.com/sftcd/lpwan-ov/blob/master/draft-farrell-lpwan-overview.txt> lo otro es que debería estar ak <https://www.lora-alliance.org/what-is-lora> al final de la página dice que mande un correo pa que se lo envíen . . .

https://docs.wixstatic.com/ugd/eccc1a_20fe760334f84a9788c5b11820281bd0.pdf es como un resumen muy completo los módulos chinos son OTAA y los sigfox ABP por eso se comportan diferente ak mas humano el RFC <https://tools.ietf.org/id/draft-ietf-lpwan-overview-04.html>

Sigfox

<https://partner.sigfox.com/>

<https://backend.sigfox.com/device/2885103/messages>

<https://backend.sigfox.com/apidocs/event-callback?configSource=0>

Workshop Sigfox

20170628_-_smt_bogota_workshop.pdf

LoRaWan

<https://www.lora-alliance.org/technology>

Fabricante chino RAK - Gateway RAK831

[https://www.aliexpress.com/store/product/RAK831-LoRa-LoRaWAN-Gateway-Module-base-on-SX1301-433-868-915MHz-range-of-up-](https://www.aliexpress.com/store/product/RAK831-LoRa-LoRaWAN-Gateway-Module-base-on-SX1301-433-868-915MHz-range-of-up-to-49200ft/2805180_32821411294.html?spm=2114.12010612.0.0.5bdadf47Uf6gic)

[to-49200ft/2805180_32821411294.html?spm=2114.12010612.0.0.5bdadf47Uf6gic](https://www.aliexpress.com/store/product/RAK831-LoRa-LoRaWAN-Gateway-Module-base-on-SX1301-433-868-915MHz-range-of-up-to-49200ft/2805180_32821411294.html?spm=2114.12010612.0.0.5bdadf47Uf6gic)

<http://www.rakwireless.com/en/WisKeyOSH/RAK831>

https://github.com/RAKWireless/RAK831_LoRaGateway

<http://docs.rakwireless.com/en/RAK831%20LoRa%20Gateway/Software%20Development/RAK831%20Datasheet%20V1.2.pdf>

<http://docs.rakwireless.com/en/RAK831%20LoRa%20Gateway/Software%20Development/RAK831%20Quick%20Start%20GuideV1.0.pdf>

[http://docs.rakwireless.com/en/RAK831%20LoRa%20Gateway/Application%20Notes/Getting%20starte](http://docs.rakwireless.com/en/RAK831%20LoRa%20Gateway/Application%20Notes/Getting%20started%20with%20the%20RAK%20831%20LoRa%20Gateway%20and%20RPi3.pdf)

Conexión a raspberry pi 3

<https://www.hackster.io/naresh-krish/getting-started-with-the-rak-831-lora-gateway-and-rpi3-e3351d>

RAK 831 Pin	Description on silk screen	RPi physical pin
	+5V	2
	GND	6
9	RST (Resent pin)	22
8	SCK (SPI Clock)	23
7	MISO	21
6	MOSI	19
5	CSN (Chip Select)	24

rpi v3 to rak 831 pin connection

Módulo RAK811

[http://wiki.rakwireless.com/doku.php?id=wisnode_series:wisnode-lora&s\[\]=rak811](http://wiki.rakwireless.com/doku.php?id=wisnode_series:wisnode-lora&s[]=rak811)

http://wiki.rakwireless.com/lib/exe/fetch.php?media=rak811_lora_at_command_v1.2.pdf

http://wiki.rakwireless.com/lib/exe/fetch.php?media=wisnode-lora_evb_quick_start_guide.pdf

Compilando herramientas del repositorio https://github.com/RAKWireless/RAK831_LoRaGateway

en archlinux instalar libftdi_compat

+ #include <sys/types.h> ->

https://www.linuxquestions.org/questions/slackware-14/what-include-am-i-missing-for-types-like-u_int8_t-4175454407/

PATH_MAX ->

<https://stackoverflow.com/questions/9449241/where-is-path-max-defined-in-linux#9449307>

Lora con RF96 y esp8266

Dragino [https://encrypted.google.com/search?hl=es&q=dragino %2B esp8266](https://encrypted.google.com/search?hl=es&q=dragino+%2Besp8266)

https://www.youtube.com/watch?v=hMOwbNUPDQA&list=PL3XBzmAj53Rkkogh-lti58h_GkhzU1n7U

<https://github.com/hallard/NodeMCU-Gateway>

<https://www.thethingsnetwork.org/forum/t/single-channel-gateway-part-1/798/339>

<https://github.com/squix78/esp8266-oled-ssd1306>

<https://github.com/things4u/ESP-1ch-Gateway-v2.0>

<https://github.com/things4u/ESP-1ch-Gateway-v3.0>

<https://github.com/JaapBraam/LoRaWanGateway>

<http://www.hoperf.com/upload/docs/rf/AN2003-LoRa%20communication%20example.pdf>

LoRa Server

<https://www.loraserver.io/>

<http://piratas.cu.cc/doku.php?id=iot:lorawan:server>

https://github.com/ttn-zh/packet_forwarder

RN2903

<http://blog.trifork.com/2016/03/04/from-the-trenches-lora-lorawan-with-the-lorabee/>

<http://ww1.microchip.com/downloads/en/DeviceDoc/40001784B.pdf>

<https://github.com/alinmechenici/LoRa-projects>

<https://github.com/HF0/LoRaWAN-for-Arduino-RN2483>

<https://www.thethingsnetwork.org/labs/>

- sys get ver
- radio set freq 903000000 a 928000000
- radio get freq
- radio set pwr 14
- mac pause
- radio tx <a random number>
- radio rx 0

Amplificadores de bajo ruido

<http://lna4all.blogspot.com.co/>

Otras aplicaciones

<https://ukhas.org.uk/guides:ssdv>

http://www.timzaman.nl/?page_id=1106

<https://www.youtube.com/watch?v=BfugrVBCA98>

<https://www.rtl-sdr.com/creating-a-fsk-video-data-system-for-high-altitude-balloons/>

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