**V0.1**

**MT7688集成LoRa教程**

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文档信息

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| **项目** | **内容** |
| **关键字** | *RisingHF, LoRaWAN, SPI* |
| **概 述** | 本文档为LoRa开发指导文件，内含MT7688集成LoRa教程。 |

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# 提供工具

1、923-mt7621-spi-half.patch

2、lora\_gateway.tar.bz2

3、packet\_forwarder.tar.bz2

# 配置OpenWrt

1. 把923-mt7621-spi-half.patch补丁复制到OpenWrt源码target/linux/ramips/patches-3.18目录。
2. 执行make menuconfig选择SPI驱动，保存退出。

Kernel modules --->

SPI Support --->

<\*> kmod-spi-dev................................. User mode SPI device driver

OpenWrt配置到目前为止可以通过SPI跟SX1301芯片通讯，用户可以解压lora\_gateway.tar.bz2，编写自己的packet forwarder程序。

## packet forwarder例子

本文档提供一个packet forwarder编译例子，该例子源码<https://github.com/Lora-net/packet_forwarder>。

1. 把packet\_forwarder.tar.bz2解压到OpenWrt源码package/utils目录。
2. 执行make menuconfig选择packet forwarder，保存退出。

Utilities --->

<\*> risinghf-pfw................................... risinghf packet forwarder

1. 编译，并烧录。

## 测试

命令终端下执行以下指令

reset\_lgw.sh start 25

test\_loragw\_spi

返回以下日志代表SPI跟SX1301芯片通讯正常：

root@OpenWrt:~# test\_loragw\_spi

Beginning of test for loragw\_spi.c

data received (simple read): 48

End of test for loragw\_spi.c

修订记录

V0.1 2017-11-03

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