

Sun May Sky

2015年9月3日 星期四

Contiki SubG Hz 6LowPAN on CC1350

To test on Contiki SubG Hz 6LowPAN on CC1350, I use SmartRF06EB+CC1350EM with FT232 USB-to-Serial dongle to act as Slip Radio which is connected to Raspberry Pi (It also works on BeagleBone Black too).

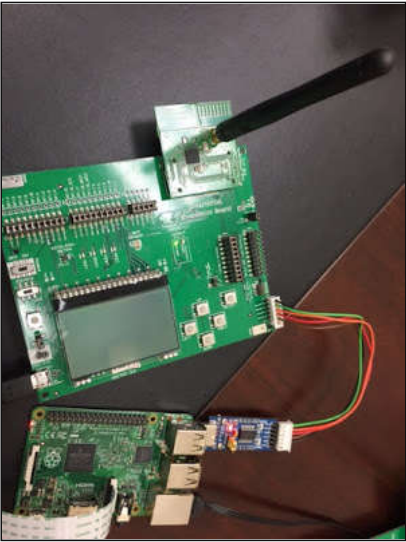
1. Git the latest Contiki source code by using "git clone --recursive https://github.com/contiki-os/contiki".
2. Open /examples/ipv6/slip-radio/project-conf.h. Comment out the QUEUEBUF_CONF_NUM and UIP_CONF_BUFFER_SIZE and add "#define RF_CORE_CONF_CHANNEL 25"

```
#ifndef PROJECT_CONF_H_
#define PROJECT_CONF_H_
/*
#define QUEUEBUF_CONF_NUM
#define QUEUEBUF_CONF_NUM      4

#define UIP_CONF_BUFFER_SIZE
#define UIP_CONF_BUFFER_SIZE    140
*/

#define RF_CORE_CONF_CHANNEL      25
#define UIP_CONF_ROUTER
#define UIP_CONF_ROUTER          0
```

3. Bulid slip-radio.bin using the following steps.
cd examples/ipv6/slip-radio
make clean
make TARGET=srf06-cc26xx BOARD=srf06/cc13xx slip-radio.bin
4. Flash slip-radio.bin to SmartRF06EB+CC1350EM using SmartRF Flash programmer 2.0.
5. Connect FT232 USB-to-Serial dongle to UART pins on SmartRF06EB and plug FT232 USB dongle to Raspberry Pi. You should see "ttyUSB0" get listed under /dev.



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6. Refer to Setup 6lbr to run 6LowPAN with CC2531 USB dongle on Raspberry Pi 2B and revise "DEV_RADIO=/dev/ttyACM0" to "DEV_RADIO=/dev/ttyUSB0" in /etc/6lbr/6lbr.conf.
7. Use "sudo service 6lbr start" to start 6lbr and you can use Firefox to access to 6lbr web page ([bbbb:100]).

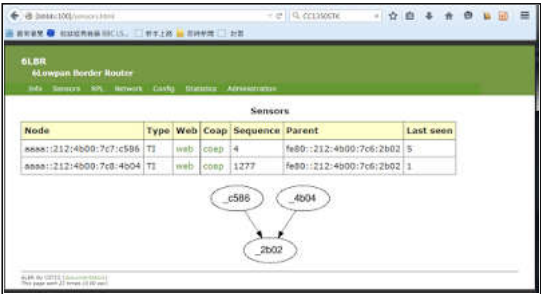


Then, I use another SmartRF06EB+CC1350EM and a CC1350 SensorTag to act as Contiki SubG Hz 6LowPAN devices.

1. Build cc26xx-web-demo.bin for SmartRF06EB+CC1350EM and CC1350 SensorTag.
cd ../examples/cc26xx/cc26xx-web-demo
make clean
make TARGET=srf06-cc26xx BOARD=srf06/cc13xx cc26xx-web-demo.bin
2. Flash cc26xx-web-demo.bin to SmartRF06EB+CC1350EM and CC1350 SensorTag using SmartRF Flash programmer 2.0.



3. Check 6lbr Sensors web page and you will see these two device on it.



張貼者: 三妹 於 下午2:14

反應: 酷 (1) 不賴喔 (0) 無聊透了 (0)

標籤: 6LowPAN, BeagleBone Black, CC1350, Contiki, Raspberry Pi, Slip Radio, SubG Hz

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