

# N208

## CC2511 2.4G ISM FSK RF USB Dongle



## INTRODUCTION

N208 is a low-cost and small size USB dongle for transmitting and receiving digital data via radio frequency. All of the N208's electronics (including an antenna) reside on a single PCB, and all operational power is derived from a single supply voltage.

The transceiver design consists of a TI CC2511 low-power, integrated UHF transceiver RF chip, The module used PCB antenna, and have USB port to connect to PC. The module available frequency is from 2400MHz to 2483MHz, The hardware is designed for maximum range. The dongle visible distance is about 100m.

N208 can be used with N207 to transmit N207's data to PC.

## Technical specifications

### Hardware Information

Interfaces: USB, LED  
Dimension: 34 x 18mm x 7mm  
Operating voltage: +5V  
Operating temperature: -30°C to +70°C

Consumption (RX): 17mA  
Consumption (TX): 20mA (0dBm)  
Wireless Micro-controller: CC2511  
Mounting: SMD

### Software

Asynchronous Transparent mode  
Low Power mode  
Secure mode

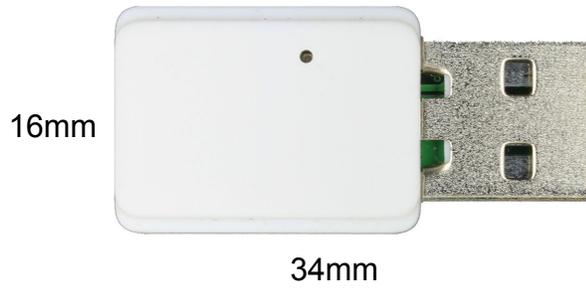
RSSI mode  
Serial bootloader  
Adjustable packet size

### Wireless Interface

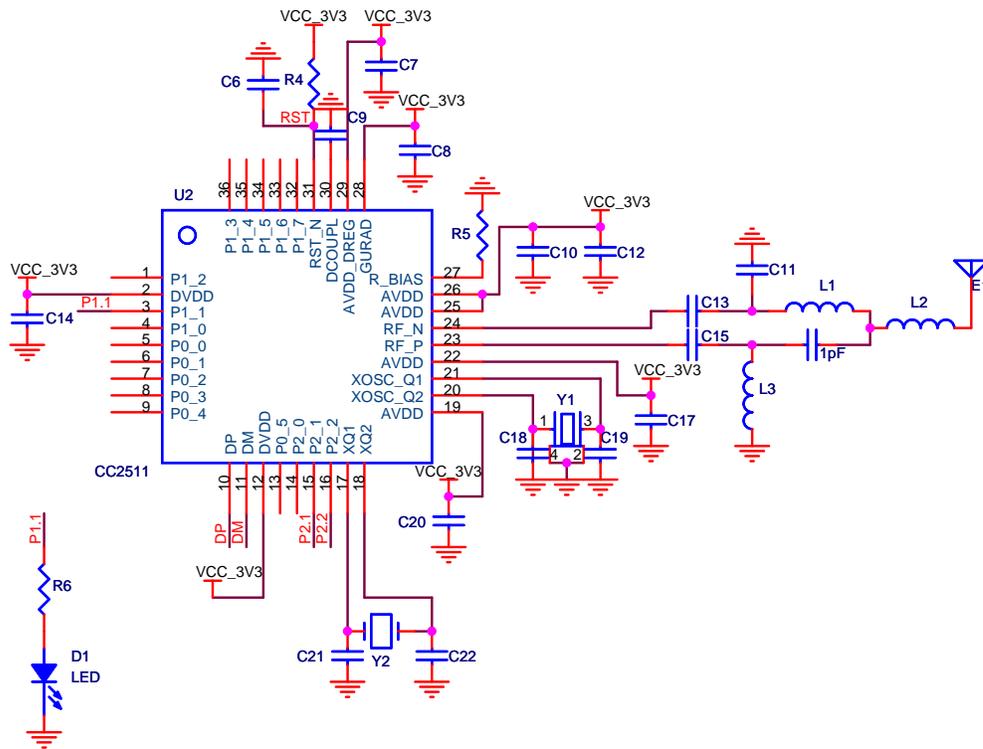
RF pin  
Frequency: 2400 to 2483MHz  
Modulation: 4GFSK, 2GFSK, 2FSK  
RF deviation:  $\pm 10$  KHz

RF data rate: from 2.4 to 500 kbps  
RF output power: up to 1dBm  
RF sensitivity: -102dBm

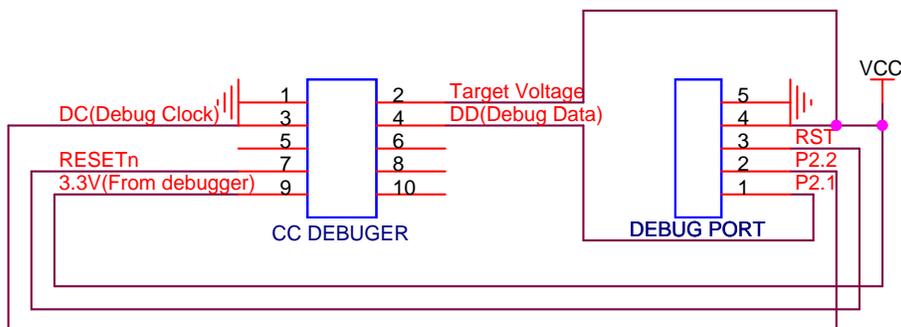
# Pin configuration & Dimensions



# Circuit



# Debug interface



## **Part numbers**

N208-A-P-2.4G      RF USB dongle N208-A-P – 1mW – 2400Mhz

## **OTHER MODULES OF BANDS RANGE**

N207-A-S-2.4G      RF Module N207-A-S – 1mW – 2400Mhz

## **Notice**

This N208 USB dongle have not any fireware,custom must use your own firmware. More about CC2511 information please see the CC2511 datasheet.

Please visit : [www.ti.com](http://www.ti.com)

## **Manufacturer**

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