

# N209

## CC2510 PA 2.4G ISM FSK RF Module



### INTRODUCTION

N209 is a low-cost and small size module for transmitting and receiving digital data via radio frequency. All of the N209'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 CC2510 low-power, integrated UHF transceiver RF chip and CC2592, The module used PCB antenna. The module available frequency is from 2400Mhz to 2483mhz, The hardware is designed for maximum range and optimal battery life.

N209 can be used with N208 to transmit N209's data to PC.

### Technical specifications

#### Hardware Information

Interfaces: UART (x1), I2C (x1), SPI (x1)  
A/D & D/A converters  
PWM timers  
Dimension: 31 x 18 x 3 mm  
Operating voltage: 3.3V  
Operating temperature: -40°C to +85°C

Consumption (Sleep): 1uA  
Consumption (RX): 17mA  
Consumption (TX): 170mA (18dBm)  
Wireless Micro-controller: CC2510  
Mounting: SMD

#### Software

Asynchronous Transparent mode  
Low Power mode  
Secure mode

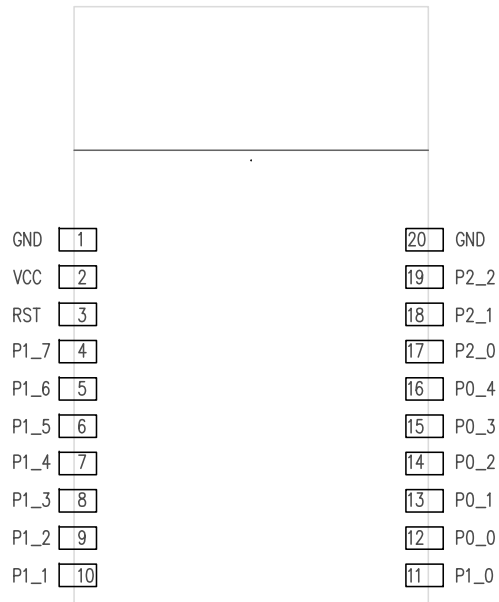
RSSI mode  
Serial bootloader  
Adjustable packet size

#### Wireless Interface

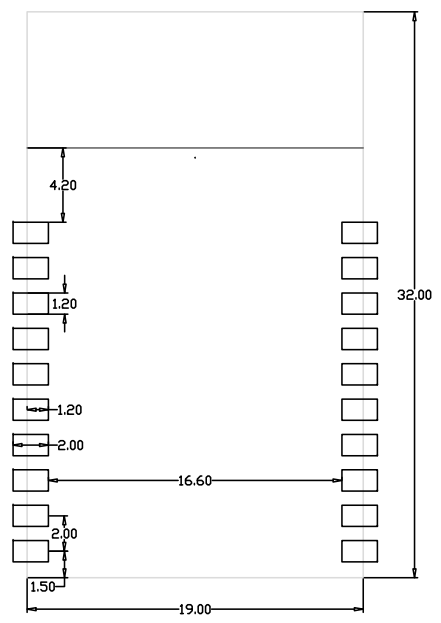
RF pin, IPEX  
Frequency: 2400 to 2483MHz  
Modulation: 4GFSK, 2GFSK, 2FSK  
RF deviation:  $\pm 10$  Khz

RF data rate: from 2.4 to 500 kbps  
RF output power: up to 18dBm  
RF sensitivity: -105dBm

# Pin configuration & Dimensions



Pin Define



PCB Layout (mm)

## **Part numbers**

N209-A-S-2.4G      RF Module N207-A-S – 50mW – 2400Mhz

## **OTHER MODULES OF BANDS RANGE**

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

## **Manufacturer**

SHENZHEN NANCHENG TECHNOLOGY CO.,LTD

## **Notice**

This module have not any fireware,custom must use your own firmware.

More about CC2510 information please see the CC2510 datasheet.

## **Contact with us**

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