

# N204

## CC2543 PA 2.4G ISM FSK RF Module



### INTRODUCTION

N204 is a low-cost and small size module for transmitting and receiving digital data via radio frequency. All of the N204'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 CC2543 low-power, integrated UHF transceiver RF chip, The module integrated PA and PCB antenna. The module available frequency is from 2397Mhz to 2495mhz, The hardware is designed for maximum range and optimal battery life.

N204 can be used with N206 to transmit N204's data to PC.

### Technical specifications

#### Hardware Information

Interfaces: UART (x1)  
A/D & D/A converters  
PWM timers  
Dimension: 30 x 17 x 3 mm  
Operating voltage: 3.3V  
Operating temperature: -30°C to +70°C

Consumption (Sleep): 1uA  
Consumption (RX): 21mA  
Consumption (TX): 170mA (20dBm)  
Wireless Micro-controller: CC2543  
Mounting: SMD

#### Software

Asynchronous Transparent mode  
Low Power mode  
Secure mode

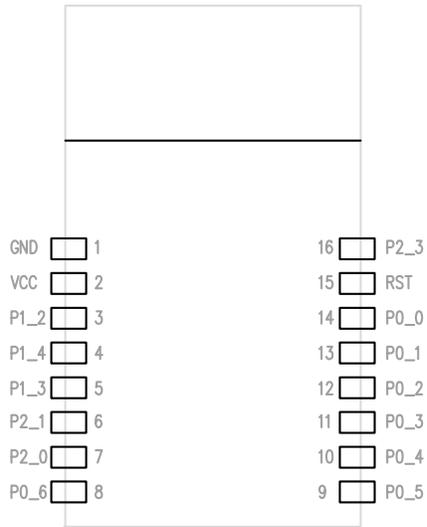
RSSI mode  
Serial bootloader  
Adjustable packet size

#### Wireless Interface

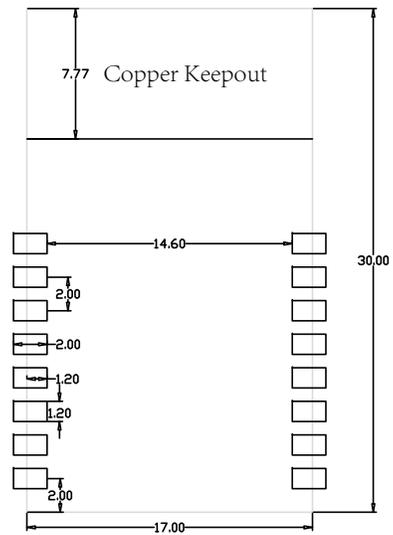
RF pin  
Frequency: 2397 to 2495MHz  
Modulation: 4GFSK, 2GFSK, 2FSK  
RF deviation:  $\pm 10$  Khz

RF data rate: from 250K to 2Mbps  
RF output power: up to 20dBm  
RF sensitivity: -98dBm

# Pin configuration & Dimensions

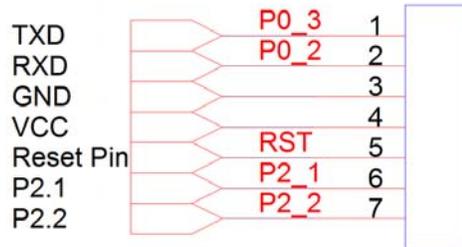


Pin Define



PCB Layout (mm)

## Debug interface



## CC2592 LOGIC

	P1_1 = PAEN	P1_0 = LANEN	P0_7 = HGM
Transmitt	1	0	1
Receive	0	1	1
Sleep	0	0	0

## **Part numbers**

N204-A-S-2.4G      RF Module N204-A-S – 100mW – 2400Mhz

## **OTHER MODULES OF BANDS RANGE**

N206-A-P-2.4G      RF Module N206-A-P – 5mW – 2400Mhz

## **Manufacturer**

SHENZHEN NANCHENG TECHNOLOGY CO.,LTD

## **Notice**

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

More about CC2543 information please see the CC2543 datasheet.

## **Contact with us**

Shenzhen NanCheng Technology CO.,LTD

Addr: Room307,Xinbaoyuan Building,N5179,District 74 Xinan Street,

BaoAn District,Shenzhen,China 518101

Sales department: +0086 755 29662101

E-mail : info@hkulike.com

Web: www.hkulike.com