

N210

ADF7242 2.4G,Dual antenna,ISM FSK RF Module



INTRODUCTION

N210 is a low-cost and small size module for Real time transmission.All of the N210'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 ADI ADF7242 low-power, integrated UHF transceiver RF chip ,The module used 2PCS antnna. The module available frequency is from 2400Mhz to 2483mhz, The hardware is designed for maximum range and optimal battery life.

Technical specifications

Hardware Information

Interfaces: UART (x1), I2C (x1), SPI (x1)
A/D & D/A converters
PWM timers
Dimension: 31 x 21 x 3 mm
Operating voltage:3.3V
Operating temperature: -40°C to +85°C

Consumption (Sleep): 1uA
Consumption (RX): 17mA
Consumption (TX): 35mA (4dBm)
Wireless Micro-controller: ADF7242
Mounting: SMD

Software

Asynchronous Transparent mode
Low Power mode
Secure mode

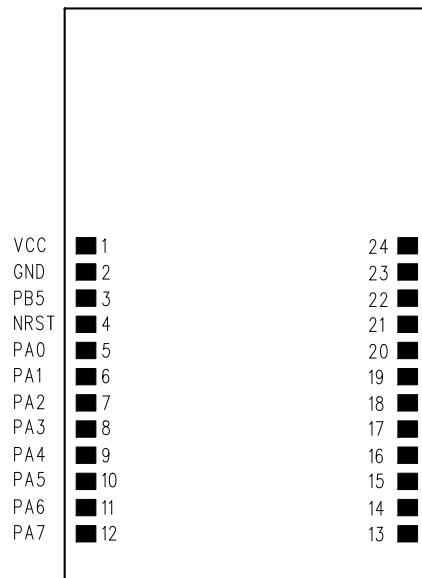
RSSI mode
Serial bootloader
Adjustable packet size

Wireless Interface

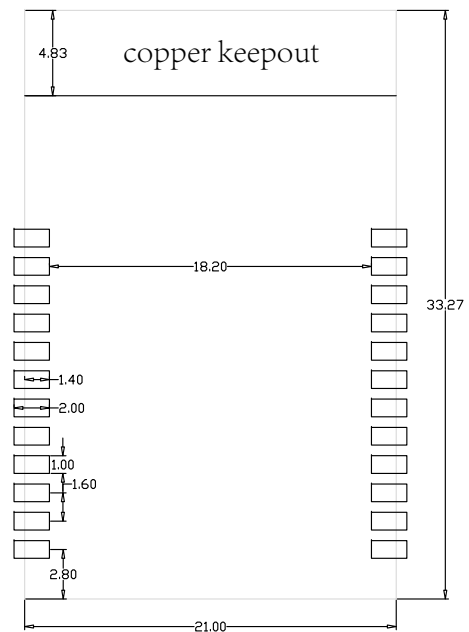
RF pin
Frequency: 2400 to 2483MHz
Modulation: 4GFSK, 2GFSK, 2FSK
RF deviation: ± 10 Khz

RF data rate: from 2.4 to 500 kbps
RF output power: up to 4dBm
RF sensitivity: -110dBm

Pin configuration & Dimensions



Pin Define



PCB Layout (mm)

Part numbers

N210-A-S-2.4G RF Module N210-A-S – 2mW – 2400Mhz

OTHER MODULES OF BANDS RANGE

N211-A-S-2.4G RF Module N211-A-S – 100mW – 2400Mhz

Manufacturer

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