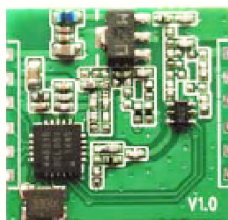


N543 SPI RF Module

SI4438 FSK RF Module, 410 to 960Mhz



INTRODUCTION

N543 is a low-cost and small size Lora RF module for transmitting and receiving digital data via radio frequency. All of the N543's electronics (don't 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 SI4438 low-power, integrated sub 1G transceiver RF chip, all IO pin are brought out. The module available frequency is from 410 to 960Mhz, The hardware is designed for maximum range. The visual distance up to 1000m.

Technical specifications

Hardware Information

Interfaces: IO
Dimension: 20 x 16mm x 3mm
Operating voltage: 2 - 3.6V
Operating temperature: -30°C to +80°C

Consumption(Sleep) : 1uA
Consumption (RX): 18mA
Consumption (TX): 120mA
RF chip: SI4438
Mounting: SMD

Software

Asynchronous Transparent mode
Low Power mode
Secure mode

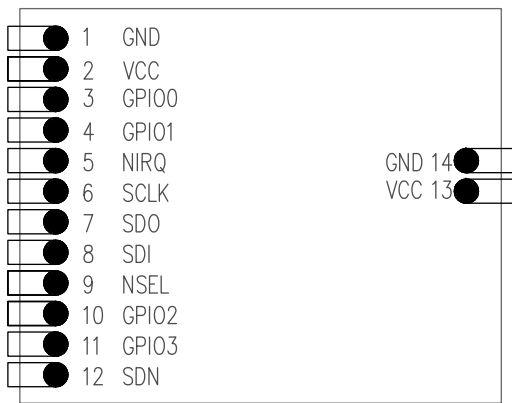
RSSI mode
Serial bootloader
Adjustable packet size

Wireless Interface

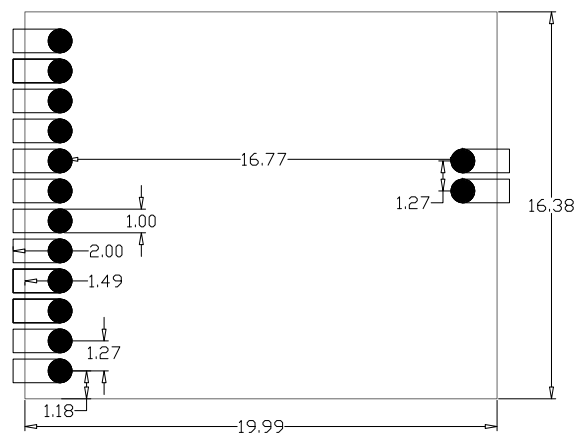
RF pin, IPEX
Frequency: 410-510Mhz, 860-960Mhz
Modulation: FSK
RF deviation: ± 10 Khz

RF data rate: 1.2 - 500kbps
RF output power: up to 20dBm
RF sensitivity: -120dBm

Pin configuration & Dimensions



PIN define



PCB LAYOUT(mm)

Part numbers

N543-A-S-434M RF Module N543-A-S-434M – 100mW – 410-510Mhz

OTHER MODULES OF BANDS RANGE

N543-A-S-868M RF Module N543-A-S-868M – 100mW – 860-960Mhz

Manufacturer

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