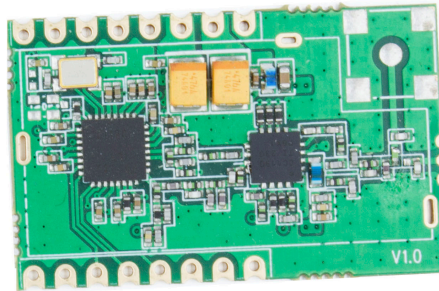


N516 Narrowband RF Module

CC1120 Narrowband RF Module,162-174Mhz,384-464Mhz,860-960Mhz,27dbm



INTRODUCTION

N516 is a low-cost and small size narrowband RF module for transmitting and receiving digital data via radio frequency. All of the N516'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 module design consists of a CC1120 low-power, integrated sub 1G transceiver RF chip,all IO pin are brought out.The module available frequency is from 162-174Mhz,384-464Mhz,860-960Mhz,The hardware is designed for maximum range.The module output power is +27dbm(at +3.3V),the visual distance up to 5000m.

Technical specifications

Hardware Information

Interfaces: SPI
Dimension: 34.8 x 21.8mm x 4mm
Operating voltage: 2 - 3.6V
PA Operating voltage: 2 - 3.9V
Operating temperature: -30°C to +80°C

Consumption(Sleep) : 2uA
Consumption (RX): 35mA
Consumption (TX): 600mA
RF chip: CC1120
Mounting: SMD

Software

Asynchronous Transparent mode
Low Power mode
Secure mode

RSSI mode
Serial bootloader
Adjustable packet size

Wireless Interface

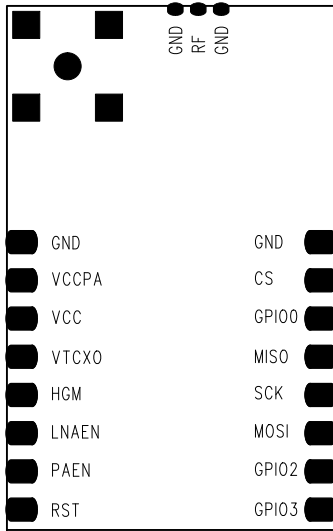
RF pin,IPEX
Frequency:162-174Mhz,384-464Mhz,860-960Mhz
Modulation: narrowband FSK
RF deviation: ± 1 KHz

RF data rate: 1 - 200Kbps
RF output power: up to 27dBm(3.3V)
RF sensitivity: -125dBm

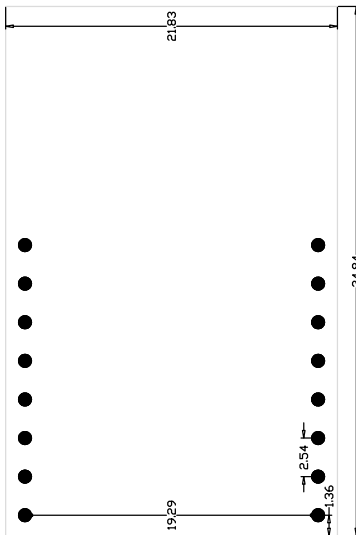
RF T/R Logic

name	VTCXO	LNAEN	PAEN	HGM
Transmitt	1	0	1	1
receive	1	1	0	1
sleep	0	0	0	0

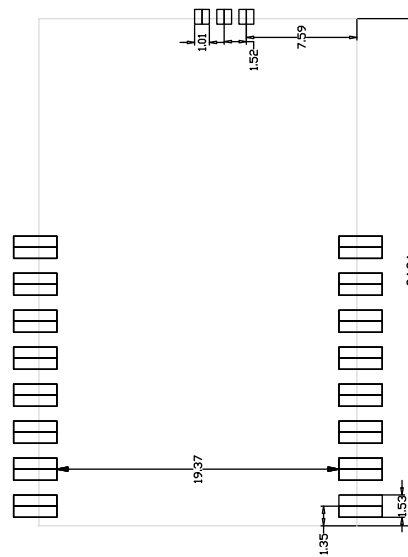
Pin configuration & Dimensions



PIN define



DIP PCB LAYOUT(mm)



SMD PCB LAYOUT(mm)

Part numbers

N516-C-S-868M RF Module N515-C-S-434M – 500mW – 860-960Mhz

OTHER MODULES OF BANDS RANGE

N515-A-S-868M RF Module N515-A-S-868M – 500mW – 860-960Mhz

N515-E-S-434M RF Module N515-E-S-434M – 1000mW – 410-480Mhz

N515-C-S-868M RF Module N515-A-S-868M – 2000mW – 860-960Mhz

Manufacturer

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