CuteRF Transceiver nRF24L01+ Module with Chip Antenna
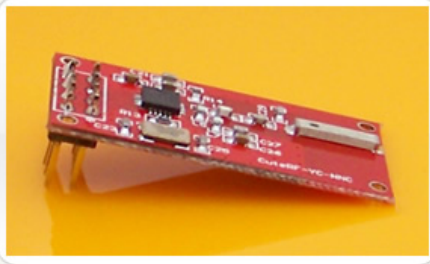
Product ID: CuteRF YC-NNC+ (No MCU, No PA, Chip antenna)
Product Version: 1.3
DocumentVersion: 1.1

1. Overview

- 2.4GHz ISM band operation
- 250Kbps / 1Mbps / 2Mbps on air data rate
- 6 data pipe MultiCeiver
- Ultra low power operation
- 5V-tolerant IO pins
- High quality chip antenna
- Drop-in compatibility with YC-NNC and PTR6000
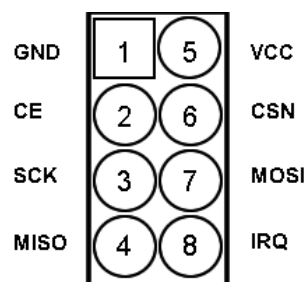- Better performance than nRF24L01

2. Electrical Information

Parameter(condition)	Value	Units
Supply voltage	1.9~3.6	V
Maximum output power	0	dBm
TX current consumption(0dBm)	11.3	mA
RX current consumption(2Mbps)	13.5	mA
Operation temperatures	-20~70	°C
Sensitivity at 1Mbps	-85	dBm
Power down current	900	nA
Antenna peak gain	3	dBi
Coverage range (open space*)	10~25	m

* The distance varies with environment, 10~25 is only typical value.
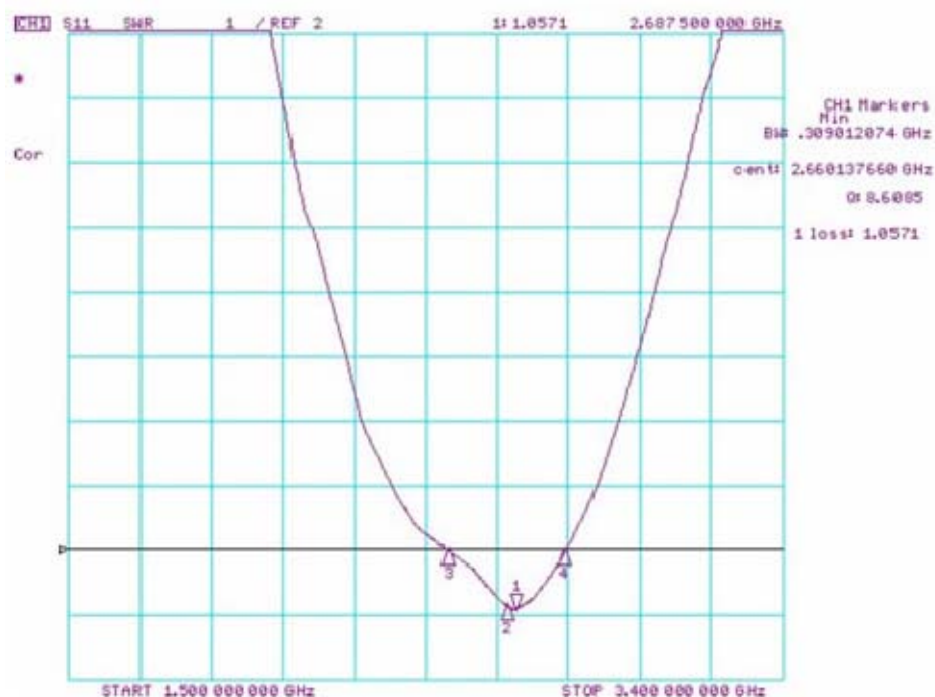
3. Pin Information

3.1 Pin assignment

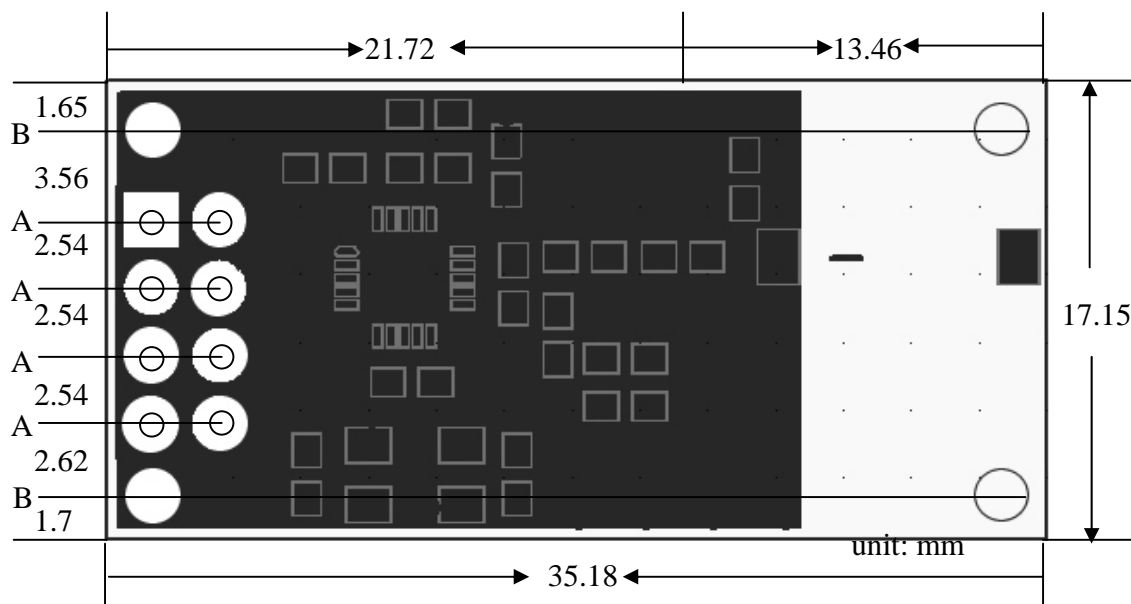YC-NNC+ pin assignment (top view)

3.2 Pin functions

Pin	Name	Pin Function	Description
1	GND	Power	Ground (0V)
2	CE	Digital Input	Chip Enable Activates RX or TX mode
3	SCK	Digital Input	SPI Clock
4	MISO	Digital Output	SPI Slave Data Output, with tri-state option
5	VCC	Power	Power Supply(1.9V~3.6V)

6	CSN	Digital Input	SPI Chip Select
7	MOSI	Digital Input	SPI Slave Data Input
8	IRQ	Digital Output	Maskable interrupt pin. Active low

4. Antenna Specification

5. Mechanical Specification

Hole A: Standard DIP IO holes, 0.9mm in diameter
Hole B: Screw Eye holes, 2.0mm in diameter