2.4GHz RF Module CRM2400SNC

General Description

- Single chip transceiver
- GFSK modulation
- 7*2 pin connector
- 1 Mbps data rate
- Programmable 125 channels, less than 200 us for channel switching
- Max output: +20dBm
- An external 2.4GHz 50Ω antenna is needed
- Built in CRC checking and address matching
- Two channels to receive different bands in receiver end
- Supply voltage：DC 2.9V~3.6V
- Current consumption：
  - ✧ Receive mode: 20mA@1Mbps receive rate, one channel
  - ✧ Transmit mode : 410mA@ +20 dBm RF power, direct transmit mode
  - ✧ Stand by mode: 40uA

Module Size

- CRM2400SNC: 53×28 mm

Pin assignment

- **Top view**(not real size):

CRM2400SNC

- **Pin assignment**

Pin	Name	Description
1	GND	Ground
2	VCC	Power supply
3	CE	Chip enable for either TX or RX
4	PWR_UP	Power up
5	CLK2	Clock output/input for RX Data channel #2
6	DR2	RX data ready at Channel #2
7	CS	Chip select Activates configuration mode
8	DOUT2	Rx data channel #2
9	CLK1	Clock input(TX) & output/input(RX) for channel #1
10	DR1	RX data ready at channel #1
11	GND	Ground
12	DATA	RX data channel 1/TX data input/3-wire interface
13	GND	Ground
14	NC	Not connect

Notes

- Operating voltage should not be higher than 3.6V
- The operating voltage of all nRF2401(A) pins should be the same as it's supply voltage pin
- Comait will not take any responsibility if the damage are made by use's wrong operation
- The detail operation procedure please refer to nRF2401(A) data sheet
- Please get the newest product information by visiting Comait website http://www.comait.com/