

## RF feature

- Frequency bands: 2400 2483MHz ISM band @ FSK,GFSK
- RX: Low current consumption(15mA) and high sensitivity

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(500Kbps@ AMICCOM-96dbm[15mA], Chipcon: TI-81dbm[22mA])
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(10Kbps@ AMICCOM-110dbm[15mA], Chipcon: TI-100dbm[22mA])

(1Mbps@ AMICCOM -94dbm[15mA], Nordic -85dbm[11mA])

(2Mbps@ AMICCOM-90dbm[15mA], Nordic -82dbm[12mA])

- Programmable RF TX output power: 0 ~ -10dbm
- Distance VS RF\_TRX:

## 500Kbps:

TI RX: -81dbm[22mA], TX: +1dbm[23mA]  $\rightarrow$  -(-81)+1 = 82dbm

AMICCOM RX : -96dbm[15mA], TX : -4dbm[13mA]  $\rightarrow$  -(-96)+(-4) = 92dbm

1Mbps:

Nordic RX : -85dbm[11mA], TX : 0dbm[12mA] → -(-85)+0 = 85dbm AMICCOM RX : -94dbm[15mA], TX : -4dbm[13mA] → -(-94)+(-4) = 90dbm

## RF feature

- On chip regulator, supply voltage 1.9 ~ 3.6V.
- On chip low power RC oscillator.
- Build in WWS(wireless wakeup system) for reduce power consumption
- Low current (< 1uA) in sleep mode</p>
- > Need only one crystal while working together with MCU
- Support 4 wire(SPI) and 3 wire interface to access RF control
- Build in RSSI, temperature sensor function
- Build in battery detection and 1ch external ADC function
- 64 bytes TX/RX FIFO buffer
- Build in FIFO extension function with up to 256 bytes FIFO No
- > Optional Manchester Data / FEC / CRC / data whitening (encryption)
- Oscillator clock out / External clock in