

IC certification FCC certification
2.4G wireless transceiver module

Product Specification



Catalogue

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Note: Revision History

Revision	Date	Comment
V1.0	2016-8-29	First release
V1.1	2017-06	Logo updated
V1.2	2020-12	Update Format

1. Description

RF2401Pro Module is a high integrated wireless module, which worked in 2.4GHz of ISM band and adopts Nordic’s RF chip nRF24L01+.

RF2401Pro uses lead-free process for production and testing strictly and has obtained many certifications such as FCC, IC and ROHS.

Module	ROHS	CE	FCC	IC	Shield
RF2401Pro	Yes	NO	Yes	Yes	Yes

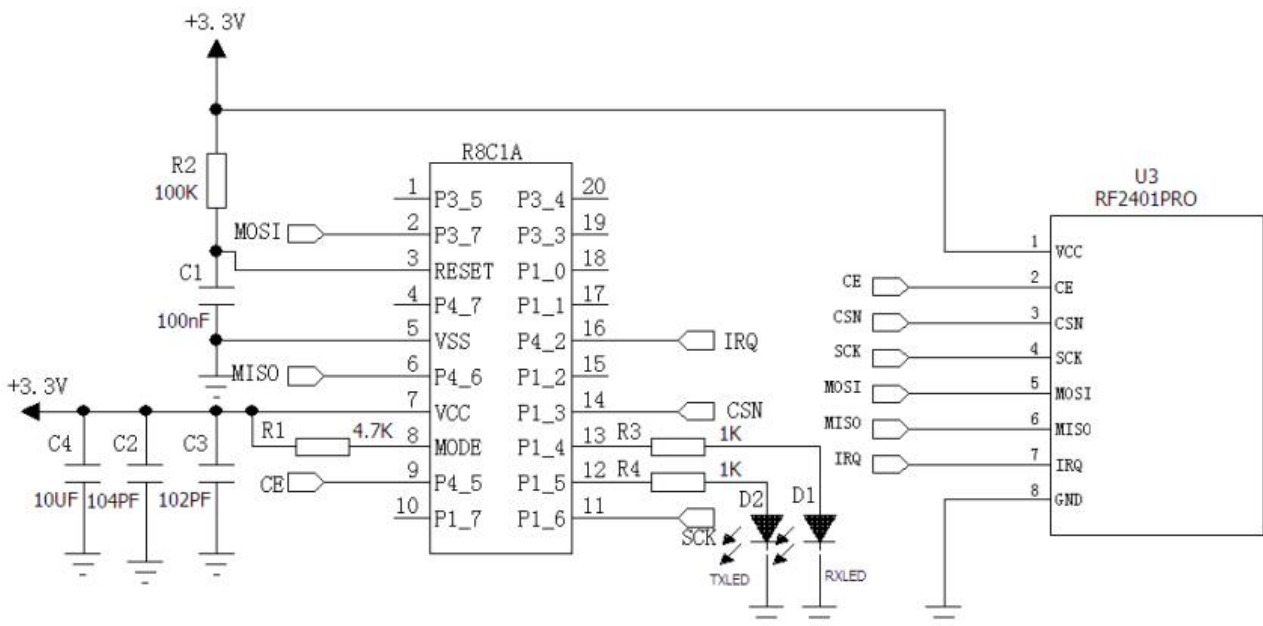
2. Features

- Frequency Range: 2400-2480MHz
- Maximum power output: 0dBm
- Sensitivity up to: -94dBm@250Kpbs
- Data rate: 250K,1Mpbs,2Mpbs
- GFSK Modulation,126 Channel
- Packet communication mode (FiFo:32 bytes)
- Ultra low power off mode
- Support functions of frequency hopping
- Timing wake-up function
- Internal integrated voltage regulator
- Operating voltage range:1.9-3.6 V
- Operating temperature range:-40~+85°C

3. Application

- Wireless remote control
- Smart Home
- Toy control
- Tire Pressure Monitoring
- Health monitoring
- Tag reader

4. Typical application circuit

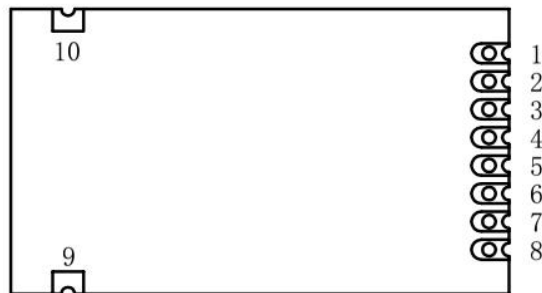


5. Electrical Characteristics

★Below parameters is measured at 3.3V

Parameter	Min.	Type.	Max.	Unit	Conditions
Operation Conditions					
Operating voltage range	1.9	3.3	3.6	V	
Operating temperature range	-40		85	°C	
Current Consumption					
RX Current		< 14		mA	
TX Current		12		mA	@0dBm
Sleep Current		<1		uA	
RF Parameters					
Frequency range	2400		2480	MHz	
Data rate	250		2000	Kbps	GFSK
Maximum output power		0		dBm	
RX sensitivity		-94		dBm	@data=250kbps

6. Pin Definition



Pin No.	Pin Definitions	Description
1	VCC	Connect to VCC (1.9-3.6V)
2	CE	Chip enable
3	CSN	CSN of SPI interface
4	SCK	SCK or SPI interface
5	MOSI	MOSI of SPI interface
6	MISO	MISO of SPI interface
7	IRQ	Interrupt output, active low
8、9、10	GND	Connect power negative

7. Mechanical Dimension(mm):

