

Premier Wireless Solutions Provider for IoT



Wireless Connectivity  
Point To Point

# Wireless Connectivity Point To Point

## Key Features

- Frequency band: 433/475/868/915MHz
- RF output power: 27dBm( programmable)
- RF data rate: 1200-38400bps
- Wide voltage range: 3.0-6.0V
- Operation under FCC CFR 47 part 15

## Product Description

FC-RF209 RF Transceiver is a compact surface-mounted half-duplex module for ISM band operation, It is a multi-channel low-cost wireless UART module for embedded applications, The module is completely shielded and designed for operation under the European and US radio regulations for license-free use.



**FC-RF209**  
Long-range Transceiver Module

| Model    | Frequency Bands (MHz) | Number of Channels | RF Data Rate (kbps) | Max Output Power (dBm) | Sensitivity (dBm) | Supply Voltage (Volt) | Current Consumption TX/RX (mA) | Current Consumption Sleep (uA) | Interface               |
|----------|-----------------------|--------------------|---------------------|------------------------|-------------------|-----------------------|--------------------------------|--------------------------------|-------------------------|
| FC-RF209 | 433/475/868/915       | 32                 | 1.2-38.4            | 27                     | -120              | 3.3-6.0               | 320/27                         | 0.1                            | TTL/<br>RS232/<br>RS485 |

## Key Features

- Free ISM working frequency band : 433M,470MHz, 868MHz, 915MHz,
- Ultra-low power consumption: 1μA @ Sleep, ≤3.8mA @ RX ;
- Wireless rate: Support 100kbps
- Programming interface: SPI+I2C digital interface
- High receiving sensitivity: -116dBm@2kbps ;

## Product Description

The FC-RF1023L is a highly integrated, high performance half-duplex wireless data transmission module. Integrated with wireless transceiver circuit of the SPI interface and EEPROM storage circuit of I2C interface, can easily realize high-speed data transmission in a small volume.



**FC-1023L**  
Ultra-low Power Consumption

| Model    | Frequency Bands (MHz) | Number of Channels | RF Data Rate (kbps) | Max Output Power (dBm) | Sensitivity (dBm) | Supply Voltage (Volt) | Current Consumption TX/RX (mA) | Current Consumption Sleep (uA) | Interface |
|----------|-----------------------|--------------------|---------------------|------------------------|-------------------|-----------------------|--------------------------------|--------------------------------|-----------|
| FC-1023L | 433/475<br>/868/915   | 32                 | 100                 | 100                    | -116d             | 3.0~3.6               | 100/3.8                        | 1                              | SPI+I2C   |

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## Key Features

- Programmable 1W~5W Output Power
- 12.5KHz/25KHz Channel Spacing
- Programmable 16 channels
- Fast start-up time: 5ms
- CTCSS/DCS Encode/Decode
- Pocsag Support
- Digital SQ programmable via PC
- LED Status Indicator
- Time out timer
- FCC,CE & AS/NZS Certified

## Product Description

FC-302 is a PLL synthesized 5-watt FM transceiver module, which is designed for data transmission and voice communication. It can support preemphasis, squelch, CTCSS/DCS and audio amplifier. Two-point modulation technology makes good low frequency response and POCSAG application possible. The radio has fast start-up time and makes it a competitive choice for 1200-19200bps rate data application. Compact dimension and wide range DC support make it flexible to use.



| Model  | Frequency Bands (MHz)                    | Number of Channels | RF Data Rate (kbps)           | Max Output Power (dBm) | Sensitivity (dBm) | Supply Voltage (Volt) | Current Consumption TX/RX (mA) | Interface               |
|--------|------------------------------------------|--------------------|-------------------------------|------------------------|-------------------|-----------------------|--------------------------------|-------------------------|
| FC-302 | 136-174<br>400-440<br>430-470<br>450-490 | 16                 | 1200<br>4800<br>9600<br>19200 | 37                     | -119              | 9.5-16                | 1500/100                       | TTL/<br>RS232/<br>RS485 |

# Wireless Connection product line

## Cellular Modules



## LPWAN



## NAN



## Sub-1GHz Modules



## 4G



## LCFDA



## WM-Bus



## NB-IoT/eMTC



## LoRa/LoRaWAN



## Data Radio





**Friendcom**

Shenzhen Friendcom Technology Co., Ltd.

6th Floor, 17 Building, Guangqian Industrial Park, Xili Town, Nanshan

District, Shenzhen, 518055, China

Tel: +86-755-86026600 Fax: +86-755-86026300

Email: [sales@friendcom.com](mailto:sales@friendcom.com)

Web: <http://www.friendcom.cn>

