

Model No. : 3568BRF

2.4GHz Digital RF Transceiver Module

1. Description:

3568BRF is highly integrated 2.4GHz ISM Band RF Transceiver with embedded Power Amplifier, LNA, PLL, AGC, Modem, and used Adaptive Frequency Hopping to avoid the interference from ISM BAND. This module has high transmission data rate; low current consumption and simple control interface is easy to apply to the wireless products.

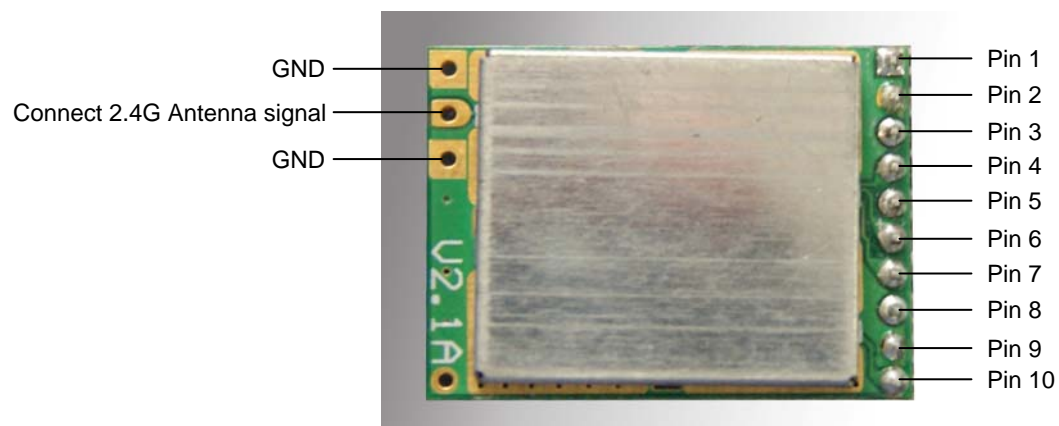
2. Specification:

- Frequency band : 2400~2483.5 MHz
- Digital Modulation: Support BPSK/QPSK/16QAM
- Operation Voltage: 2.7V~3.3V
- Output Power : 15.5 dBm
- Sensitivity: -88dBm
- Data Rate: Up to 12 Mbps
- TDD full-duplex, including decoder, encoder and 1000 byte FIFO data buffer.
- Supports Auto ACK and & Retransmit
- Supports CRC.
- 4-wire digital interface (SPI)

3. Application:

- Wireless mouse, keyboard, joystick
- Keyless entry
- Alarm and security system
- Home automation
- Surveillance
- Automotive
- Telemetry
- Industrial sensors
- Wireless data communication

4. Pins Assignment



Pin 1: Power supply voltage +5V.

Pin 2: Ground connection.

Pin 3: 12MHz clock output.

Pin 4: Interrupt indication for external MCU.

Pin 5: Chip selection for SPI interface.

Pin 6: Data output for SPI interface.

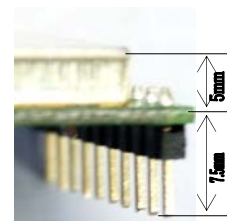
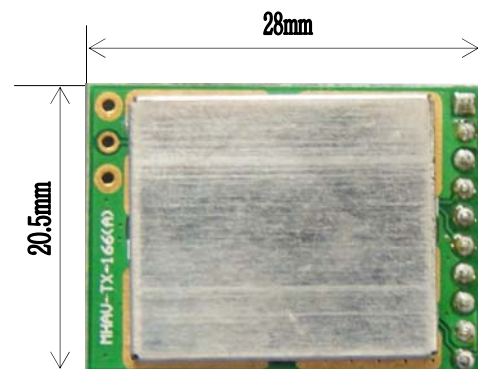
Pin 7: Data input or 3-wire data output.

Pin 8: Clock input for SPI interface.

Pin 9: Ground connection.

Pin 10: 32kHz crystal output.

5. PCB Dimension



Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Label for end product must include "Contains FCC ID: NOQ3568BRF" or "A RF transmitter inside, FCC ID: NOQ3568BRF".

FCC ID Label Graph:

Type: 3568BRF FCC ID: NOQ3568BRF

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

If the product is too small to make so many text labels, only need to indicate the FCC ID number on the label, but the above text will be printed in the manual or packaging box.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

This module has been regulatory approved for integrations which meet the following conditions:

1. The radio integration is embedded
2. The antenna must be installed such that 20 cm is maintained between the antenna and users
3. The 'Type' and 'Gain' of the antenna selected for the integration of the external antenna must meet the requirements as detailed in section.

Used outside of these conditions will trigger re-approval.