

FMBUS200

Wireless M-Bus Module



DESCRIPTION

Four-Faith FMBUS200 is an RF module compliant with EN13757 standard. **FMBUS200** module can operate in license-free frequency bands of 169/433/868/915 MHz with transmit power up to 15dBm and run in S, T, C and N modes defined by EN13757-4. With high performance low power consumption design, it is widely adopted in AMI (Advanced Metering Infrastructure) applications, it easily used in water, gas, heat and electricity meters industry.

This module has many unique features:

- Excellent RX sensitivity
- Low-power management
- Support master, repeater and slave modes

HIGHLIGHT

WIRELESS M-BUS

- ◆ Operate in 169/433/868/915MHz Bands
- ◆ Compliant with wireless m-bus standard EN13757-3/4/5
- ◆ Rate: 4.8, 32.768 or 100kcps
- ◆ Wireless M-Bus S/T/C/N mode
- ◆ Slave, Repeater and Master

PERFORMANCE

- ◆ Range: Up to 800m
- ◆ Output Power: Up to 14dBm
- ◆ Sensitivity: -110dBm@32.768kcps
- ◆ Configurable output power
- ◆ Power Consumption: TXD < 22mA
RXD < 10mA
SLEEP < 1uA
- ◆ AT command for configuration
- ◆ UART firmware upgrade or FOTA

SPECIFICATIONS

CHARACTERISTICS	
Protocol	Wireless M-Bus compliant EN13757-3/4/5 standard
Band	169/433/868/915 MHz
Range	Up to 800m
Out Power	< 14dBm
Sensitivity	-108dbm
Radio Data Rate	4.8, 32.768 or 100kcps
Mode	S, T, C, N
Role	Slave, Repeater and Master
INTERFACE	
UART	<ul style="list-style-type: none">• Data bits: 8• Stop bits: 1, 2• Checksum: none, odd, even• Baud rate: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Antenna Connector	SMA female / Antenna Pad/U.FL, the characteristic impedance of 50 ohms
Package	Support 2.54mm*7pin spacing stamp hole for SMT and 2*2.0mm*10pin spacing through-hole pins simultaneous
POWER SUPPLY	
Standard	3.3V/0.5A
DC	3.3~5 V
POWER CONSUMPTION	
Stand By	Average Current \leq 1.0uA
Communication	TXD \leq 22mA RXD \leq 10mA
PHYSICAL	
Dimensions	24.4x13.0x3mm
Weight	1.5g
OTHERS	
Operating Temperature	-40~+85°C (-40~+185°F)
Storage Temperature	-40~+125°C (-40~+257°F)
Relative Humidity	95% (non-condensing)

Ordering Information

Model	Description
FMBUS200-169-U	Wireless M-Bus module 169MHz, up to 25dBm
FMBUS200-433-U	Wireless M-Bus module 433MHz, up to 14dBm
FMBUS200-868-U	Wireless M-Bus module 868MHz, up to 14dBm
FMBUS200-915-U	Wireless M-Bus module 915MHz, up to 14dBm



Tel: +86-592-5907276

Email: sales@four-faith.com

Website: en.four-faith.com

Address: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.

Xiamen Four-Faith Communication Technology Co., Ltd.

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