

Document version	Confidential
V2.0.0	

## F8913C-BA ZigBee Module TECHNICAL SPECIFICATION

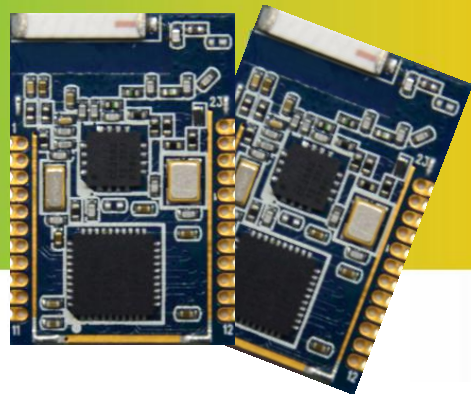
### General

F8913C-BA zigbee module support ZigBee Home Automation Profile,Built-in High performance chip antenna.

F8913C-BA provide interconnection with other HA devices and convenience to get quick access to Zigbee HA for traditonal vendor.

# Smart Home ZigBee Moudle

F8913C



## Product Feature

### Compatible with SmartHome Standard

Support ZigBee Home Automation/ZigBee Light Link Profile.

Built-in High performance chip antenna.

### Miniature package

Adopt a miniature package and the weight is only 2g, Convenient to embed in a variety of smart home devices.

### High-performance radio ability

High-performance radio ability penetrated different kinds of walls and steel-door.

### Long-distance communication

Support multihops of data packets and convenient to make large network, the RF Line-of-Sight Range reaches 2000m.

## Product Specification

### F8913C Model Sheet

Model	Content
F8913C-BA	Built-in High performance chip antenna ZigBee module

### ZigBee Parameter

Item	Content
MCU	Industrial ZigBee Platform
Communication Protocol and Band	IEEE 802.15.4 ISM2.4~2.5GHz
Indoor/Urban Range	90m
Outdoor/RF Line-of-Sight Range	500m
Transmit Power	100 mW (+20dBm)
RF Data Rate	250Kbps
Receiver Sensitivity	-93dBm
Network Topologies	Point-to-Point, Point-to-Multipoint and Mesh
Channels	11 to 26

### Interface Type

Item	Content
Antenna	Chip antenna, impedance 50 ohm
Package	Support half-hole for SMT and 1.27mm spacing through-hole pins simultaneous

### Power Input

Item	Content
Recommended Power	DC 3.3V/0.5A
Working Voltage	DC 2.8~3.6V@21dBm

**Power Consumption**

Working States		Power Consumption ( typical value )
F8913C	RX Mode	28~30mA@3.3VDC
	TX Mode	41.2~42.5mA@3.3VDC, (Max-Pulse-Current ≤230mA)
	Timing wake up	1.0~1.5uA@3.3VDC
	Deep Sleep	0.3~0.5uA@3.3VDC

**Physical Characteristics**

Item	Content
Dimensions	25x17x2 mm
Weight	2.0g

**Environmental Limits**

Item	Content
Operating Temperature	-40~+85°C (-40~+185 °F)
Storage Temperature	-40~+125°C (-40~+257°F)
Operating Humidity	95% (unfreezing)