

Document version	Confidential
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F8920 ZigBee Gateway TECHNICAL SPECIFICATION

General

F8920 is the system center of a smart home networking which constructed with sensors, lighting system, controllers and so on.

This makes it convenient to control our furniture and brings intelligent life to us.



Smart Home Gateway

F8920

Product Feature

Integrated ZigBee and WiFi

Support ZigBee and WiFi communication, provide interconnection with other smart home devices.

Stability and Reliability

Years of experience in M2M field, which make the smart home devices more stable and reliable.

AES128 encryption

Using AES128 encryption algorithm which makes data transmission secure and reliable.

High-performance radio ability

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

Smart Config

With Smart Config technology, it only takes one step operation on the APP to make the gateway connect to the Cloud.

Product Specification

F8920 Model Sheet

Model	Content
F8920	F8920 ZigBee Gateway

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	2000m
Transmit Power	100 mw (+20dBm)
RF Data Rate	250Kbps
Receiver Sensitivity	-103dBm
Network Topologies	Point-to-Point, Point-to-Multipoint, Peer-to-Peer and Mesh
Channels	11 to 26

WiFi Parameter

Item	Content
Communication Protocol and Band	IEEE 802.11b/g/n 2.412GHz-2.484GHz
Transmit Power	802.11b: +16 +/-2dBm (@11Mbps)
	802.11g: +14 +/-2dBm (@54Mbps)



	802.11n: +13 +/-2dBm (@HT20, MCS7)
Receiver Sensitivity	802.11b: -93 dBm (@11Mbps ,CCK)
	802.11g: -85dBm (@54Mbps, OFDM)
	802.11n: -82dBm (@HT20, MCS7)

Interface Type

Item	Content
Power	MicroUSB

Power Input

Item	Content
Recommended Power	DC 5V/1A

Physical Characteristics

Item	Content
Dimensions	62x62x20 mm