



## **ZBT1WF-1501S100 WIFI Module Datasheet**

**Version: V1.0**

**Date: Apr, 2017**



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## ZBT1WF-1501S100 WIFI Module

### General Description

**ZBT1WF-1501S100** module is a low power consumption, high performance WIFI Smart home / IoT solution, and design based on TI CC3200 SimpleLink Wi-Fi —Consists of Applications Microcontroller, Wi-Fi Network Processor, and Power-Management Subsystems in a single chip for IEEE 802.11 b/g/n compatible. It supports smartconfig technology for customer easy connected (APP). It can implement the wireless network function on the air-condition, refrigerator and other wireless devices easily.

### Features

- Support IEEE802.11 b/g/n(2.4G only), WiFi Direct(P2P), soft-AP;
- Embedded ARM® Cortex®-M4 Core;
- Support Smartconfig Technology;
- Consists of TCP/IP Stack;
- PCB sniffer ANT(or External ANT);
- Support UART/SPI/I2C;
- Small dimension: 32mm\*23mm, Surface mounted;
- IAR/CCS Programming environment;
- PIN number:36 PIN;
- Dimension: 32.8mm\*23.1mm;

### Application:

- Smart home (Refrigerator/Air-condition, etc..);
- Wireless IoT;



**Specification:**

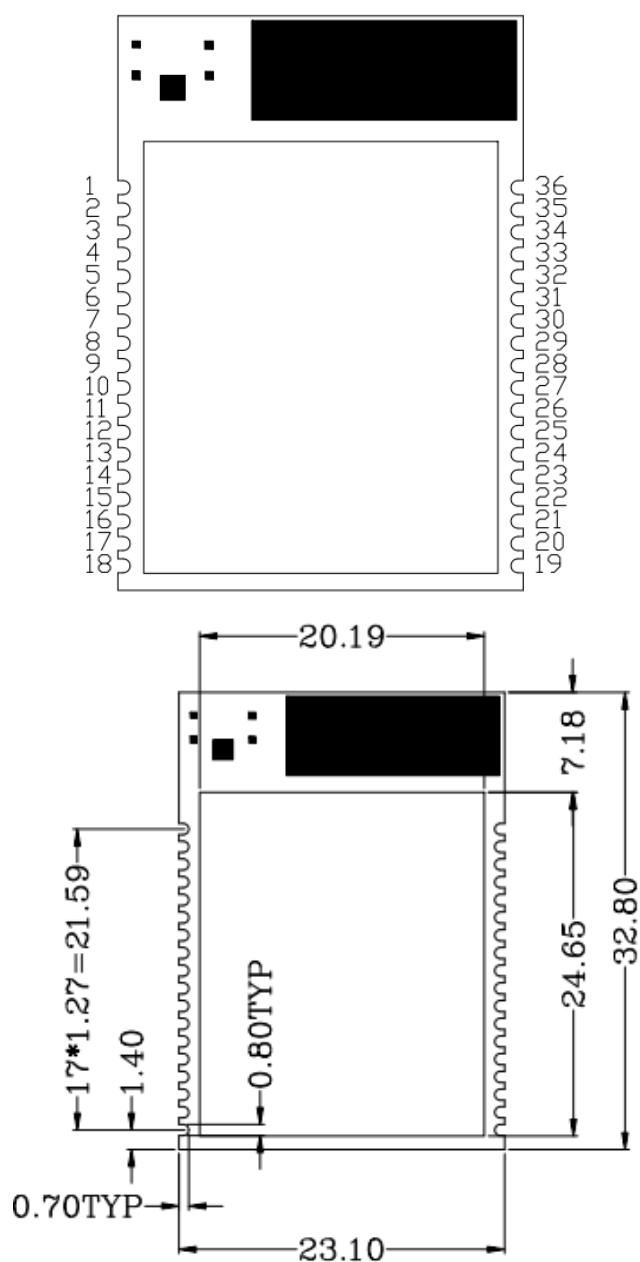
Table 1: Environment condition:

Parameter	value
Operation temperature	-20℃ to 80℃
Storage temperature	-40℃ to 120℃

Table 2: Electrical condition:

	MIN	TYP	MAX	Unit
VDD	-0.3	3.3	3.6	Vdc
VIO	-0.3	3.3	3.6	Vdc

**Mechanical Specification:**



**PIN Description:**

Number	Signal Name	Signal Description	Note
1	GND	Module GND	
2	EXRESET	External reset PIN	
3	SOP2	SOP Boot config	
4	SOP0	SOP Boot config	
5	VDD	3.3V	
6	VDD	3.3V	
7	GND	Module GND	
8	GND	Module GND	
9	GPIO30	GPIO	
10	GPIO0	GPIO	
		UART0_CTS	
11	GPIO6	GPIO	
		UART0_RTS	
12	GPIO1	GPIO	
		UART0_TXD	
13	GPIO2	GPIO	
		UART0_RXD	
		ADC0	ADC Channel 0 Analog Input (1.5V max)
14	GPIO3	GPIO	
		UART1_TXD	
		ADC1	ADC Channel 1 Analog Input (1.5V max)
15	GPIO4	GPIO	
		UART1_RXD	
		ADC2	ADC Channel 2 Analog Input (1.5V max)
16	GPIO5	GPIO	
		ADC3	ADC Channel 3 Analog Input (1.5V max)
17	GPIO7	GPIO	
		UART1_RTS	
18	GPIO8	GPIO	
19	GPIO9	GPIO	
20	GPIO10	GPIO	
		I2C_CLK	



21	GPIO11	GPIO	
		I2C_DATA	
22	GPIO12	GPIO	
23	GPIO13	GPIO	
24	GPIO14	GPIO	
		SPI_CLK	
25	GPIO15	GPIO	
		SPI_MISO	
26	GPIO16	GPIO	
		SPI_MOSI	
27	GPIO17	GPIO	
		SPI_SS	
28	GND	Module GND	
29	VDD	3.3V	
30	GPIO22	GPIO	
31	GPIO28	GPIO	
32	JTAG_TDI	JTAG_TDI	
33	JTAG_TDO	JTAG_TDO	
34	JTAG_TCK	JTAG_TCK	
35	JTAG_TMS	JTAG_TMS	
36	GND	Module GND	

**ZB-W3200 WIFI module mode configuration:**

SOP0	SOP2	MODE
0	1	UART Download Firmware
1	0	Operation mode
0	0	Operation mode

**RF Performance**

For 802.11b,802.11g and 802.11n-HT20 mode,11 channels are provided.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	
6	2437	/	
7	2442	/	



**FCC Caution:**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This module is intended for OEM integrator. The OEM integrator is still responsible for the FCC compliance requirement of the end product, which integrates this module.

The final end product must be labeled in a visible area with the following" Contains FCC ID: 2AMRBZBT1WF-CC3200" and the frequency can't be changed by end users.



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**Important notice :**

Genbyte Technology Inc. reserve the right to make corrections, enhancements, improvements and other changes to its products.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products.

**Reversion History**

Rev	Author	Date	Note
V1.0	Leon	2017.04.28	First release