

User Guide

FZB57A3+ module belongs to TI module that usually used in gateway's development. A shielding case on it is to insulate from external signals. It has an IPEX antenna to connection external antenna, which is used to enhance the sending and receiving signals of the module; FZB57A3+ module, a total of 20 pin ,as for gateway development, only eight of pin are used, function of other pin for the developers. In addition, module also retained the DEBUG interface and UART interface.

Pin Assignments:

Pin number	Name	I/O	Description
1	GND	-	Ground
2	VDD	I	Power (+3.3V)
3	P2.2	O	The simulator debugs clock line
4	P2.1	I	The simulator debugs data line
5	P2.0	I/O	
6	P1.7	I/O	
7	P1.6	I/O	
8	P1.5	I/O	
9	P1.3	I/O	
10	P1.2	I/O	
11	P1.0	I/O	
12	P0.6	I/O	
13	P0.5	I/O	
14	P0.4	I/O	
15	P0.3	O	UART TX Signal
16	P0.2	I	UART RX Signal
17	P0.1	I/O	
18	P0.0	I/O	
19	Z_RESETh	I	System RESET signal, low level effective
20	GND	-	Ground

Features:

- Follow IEEE802.15.4 Standard
- 8-KB RAM
- ZigBee Systems(256-KB Flash)
- Home/Building Automation
- Industrial Control and Monitoring
- Low-Power Wireless Sensor Networks
- Consumer Electronics
- Health Care
- Supply Voltage 2.0V-3.6V
- Operation frequency: 2405-2480MHz
- Conform to ZigBee Standard,support ZLL and ZHA.
- Support IPEX Antenna
- Use UART communication,and support to upgrade software by UART
- Integrate with 2.4G low power consumption of transceiver

FCC compliance

This device complies with Part 15 of the FCC Rules.

Part Number	FCC ID
FZB57A3+	2AE8BFZB57A3PF

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.

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

This device must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Warning for FZB57A3+: This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

The final end product must be labeled in a visible area with the following: Contains FCC ID: 2AE8BFZB57A3PF.

The OEM integrator is responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emission, PC peripheral requirements, etc.).

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one

or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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 2.4G Module complies with FCC radio-frequency exposure guidelines set forth for an uncontrolled environment.

This device is intended only for OEM integrators under the following conditions:

(1) According to FCC Part 15 Subpart C Section 15.212, the radio elements of the modular transmitter must have their own shielding. This module is granted as a Single Modular Approval.

(2) This device has been designed to operate with a External antenna having a maximum gain of 2dBi(max.). Only this type of antenna may be used.

(3) Integration is typically strictly restricted to Grantee himself or dedicated OEM integrators under control of the Grantee.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

USER MANUAL OF THE END PRODUCT:

In the user manual of the end product, the end user has to be informed that the equipment complies with FCC radio-frequency exposure guidelines set forth for an uncontrolled environment.

The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

If the size of the end product is smaller than 8x10cm, then additional FCC part 15.19 statement is required to be available in the user manual: This device complies with Part 15 of 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.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following" Contains TX FCC ID: 2AE8BFZB57A3PF ". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of 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.