WE1005(ZigBee) module

This module designed as low power consumption RF module based on TI SoC (system o n chip) CC2530 chip, can be widely used in short distance wireless communication netw ork, with low power consumption, small volume, strong anti-jamming capability, etc.

This module work in the 2.4 GHz ISM band, you can use the IEEE802.15.4, ZigBee and RF4CE application protocol. Based on the ZigBee protocol standard, can realize Smart H ome control (Home Automation), intelligent Energy acquisition (Smart Energy), intelligent l ighting control (ZigBee Light Link).

Features：

1. High integration,2.4GHz IEEE802.15.4 RF transceiver
2. High performance，Enhanced 8051 microcontroller
3. Low cost,module integration protocol stack and application program
4. With automatic networking,automatic routing capability

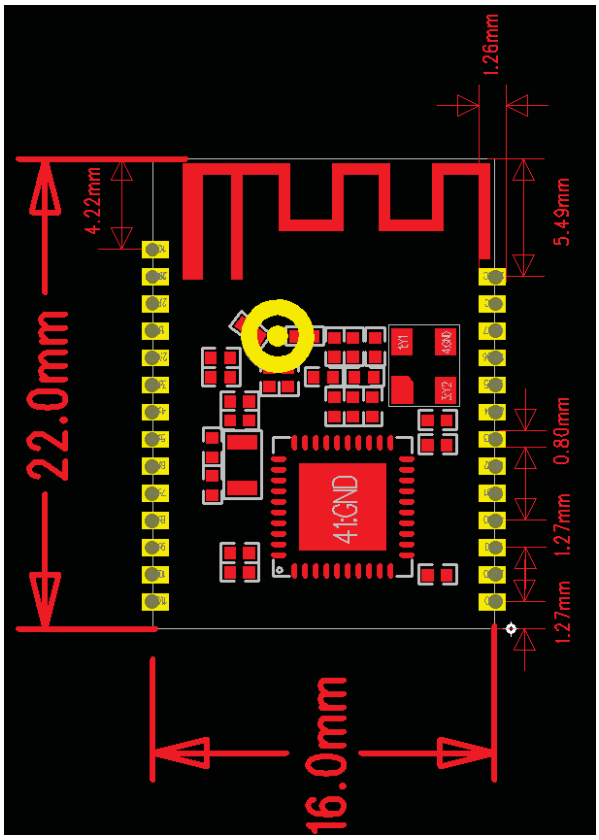
Application：

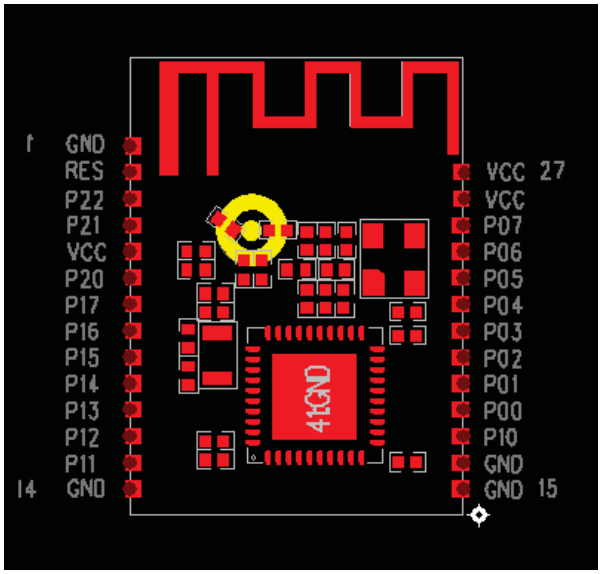
1. 2.4GHz IEEE802.15.4 Systems
2. RF4CE Remote Control System
3. ZigBee System
4. Home/Building Automation
5. Lighting Systems
6. Industrial Control and Monitoring
7. Low-Power Wireless Sensor Networks

WE1005

Mechanical Footprint (Unit:mm)

DIMENSIONS – 22.0 x 16.0 x 1.9 mm.





Pin Description

PIN	PIN name	Description	Remarks
Pin1	GND	The ground pad must be connected to a solid ground plane.	
Pin2	RESET	Reset, Active Low	
Pin3	P22	I/O	DEBUG_DC
Pin4	P21	I/O	DEBUG_DD
Pin5	VCC	Power-supply connection	2V-3.6V
Pin6	P20	I/O	
Pin7	P17	I/O	
Pin8	P16	I/O	
Pin9	P15	I/O	
Pin10	P14	I/O	
Pin11	P13	I/O	
Pin12	P12	I/O	
Pin13	P11	I/O	
Pin14	GND	The ground pad must be connected to a solid ground plane.	
Pin15	GND	The ground pad must be connected to a solid ground plane.	
Pin16	GND	The ground pad must be connected to a solid ground plane.	
Pin17	P10	I/O	
Pin18	P00	I/O	
Pin19	P01	I/O	
Pin20	P02	I/O	
Pin21	P03	I/O	
Pin22	P04	I/O	
Pin23	P05	I/O	
Pin24	P06	I/O	
Pin25	P07	I/O	
Pin26	VCC	Power-supply connection	2V-3.6V
Pin27	VCC	Power-supply connection	2V-3.6V

FCC Statement:

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

FCC Radiation Exposure Statement
This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: 2ABTD-WE1005 Or Contains FCC ID: 2ABTD-WE1005
When the module is installed inside another device, the user manual of the host must contain below warning statements;
1. 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.
(2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product
Any company of the host device which install this modular with limit modular approval should perform the test of radiated emission and spurious emission according to FCC part 15C : 15.247 and 15.209 requirement, Only if the test result comply with FCC part 15C : 15.247 and 15.209 requirement then the host can be sold legally.