

The user manual of WIFI、Bluetooth module

1. The product description

The user can achieve the terminal equipment connection WIFI net and Bluetooth, through this module

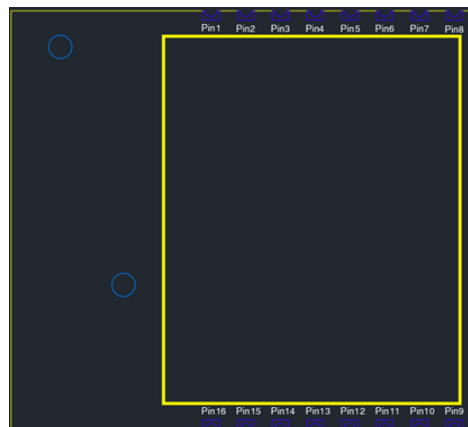
This equipment may be operated in all European countries.



2. Interface

◆ Interface

16pin stamp hole



◆ Pin definition

PIN	Name	Function	Remark
PIN1	GND	GND	GND
PIN2	VCC	VCC	3.3V
PIN3	NC		
PIN4	RX Log	RX Log	Download and capture log
PIN5	TX Log	TX Log	Download and capture log
PIN6	TX	TX	TLL level
PIN7	RX	RX	TLL level
PIN8	GND	GND	GND
PIN9	GND	GND	GND
PIN10	GPIO_2	GPIO (Reserved)	
PIN11	GPIO_1	GPIO (Reserved)	
PIN12	RESET	Hardware Reset	Module Reset when pull down

PIN13	NC		
PIN14	DL_MODE	Forced download	In download mode when pull up
PIN15	NC		
PIN16	GND	GND	GND

◆ Power consumption requirements

The maximum working current is not more than 500mA, the instantaneous maximum current is not more than 700mA;
In standby mode, the power supply of the module shall be no less than 0.45W, and the power supply current shall be no less than 1A (DC-DC is recommended).

2. Basic parameters

Feature Description	Feature Description
Model	MW14S
Product Name	WiFi 11b/g/n 1T1R and BLE4.2 Model
Major Chipset	Realtek RTL8720CF
WLAN Standard	IEEE 802.11b/g/n
Max Power	20dBm
BT Standard	BLE4.2
WLAN Frequency Range	2.4GHz~2.4835GHz
BT Frequency Range	2.4GHz~2.4835GHz
Spread Spectrum	IEEE 802.11b: DBPSK, DQPSK, CCK for DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM for OFDM (Orthogonal Frequency Division Multiplexing) IEEE 802.11n: MCS0~MCS7, OFDM
Modulation Method	DSSS/DBPSK/DQPSK/16-QAM/ 64-QAM
Data Transfer Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0~MCS7, up to 72.2Mbps
Antenna Reference	PCB printed ANT
Interface	16pin stamp hole
Supply Voltage	3.3V±0.3V
Dimension	20×18×3.2mm
Weight	1.5g
Operating Temperature	-10°C to 70°C
Storage Temperature	-20°C to 85°C

Note:

Low Temperature Operation

When the external temperature is lower than -10°C, the modules have an increased risk of damage and face unpredictable risks. Do not use modules at temperatures lower than -10 °C!

4. The display method of Model approved code

In the factory, the model approve code is pasted on the back shell in a label.

5. CE Statement

EU DECLARATION OF CONFORMITY

Hisense declares that the radio equipment type Hisense MW14S is in compliance with Directive 2014/53/EU.

6. FCC Statement

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.

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.

7. Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of FCC RF Rules.

This equipment should be installed and operated with minimum distance of 20 in (50cm) between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter

CAUTION:

To comply with the limits of the Class B digital device pursuant to Part 15 of the FCC Rules, this device is compliant with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables may result in interference to radio or reception

MODIFICATION

To assure continued compliance, Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

8. Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 50 cm (8 in) between the radiator and your body. NOTE To satisfy FCC exterior labeling requirements, the following text must be placed on the exterior of the end product: Contains Transmitter module FCC ID: 2A4A3MW14S-E1

To satisfy IESD exterior labeling requirements, the following text must be placed on the exterior of the end product: "Contains Transmitter module IC: *****"



This symbol on the product or on its packaging indicates that this product must not be disposed of with your household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal

service or the shop where you purchased the product.