

Product Label:

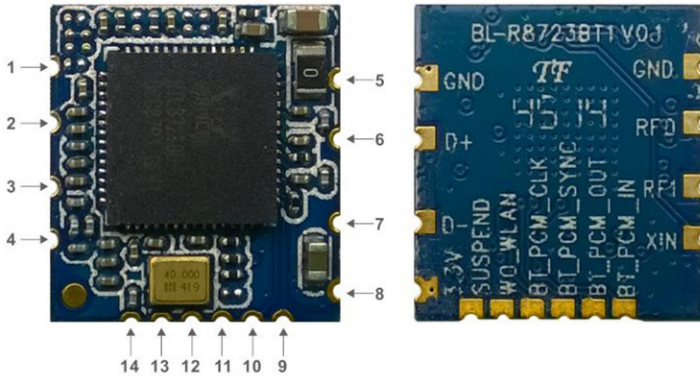
LB-LINK

Model: BL-R8723BT1

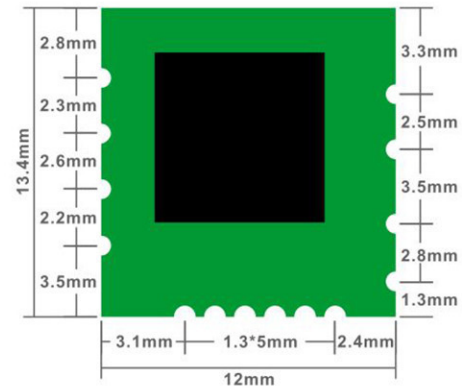
Shenzhen Bilian Electronic Co., Ltd.

FCC ID: S8J-R8723BT1

CE 0700



Structure and Size:



Model: BL-R8723BT1
REALTEK RTL8723BU CHIPSET

Product Application

- Desk-Top Pc, Tablet Pc, etc
- Set-top box, Note-book, etc
- Consumer electronic device and intelligent appliance
- (Such as TV, Blue-ray Disk, etc).

Pin No.	Function	Description
1	GND	Ground
2	RF0	WLAN/BT RF TX/RX signal0
3	RF1	Non-functional
4	XIN	40MHz crystal reference clock input
5	GND	Ground
6	D+	High-Speed USB D+ Signal
7	D-	High-Speed USB D- Signal
8	VCC33	VDD3.3V for Digital IO
9	SUSPEND	Host wakeup pin
10	WO_WLAN	Host wakeup pin
11	BT_PCM_CLK	PCM clock
12	BT_PCM_SYNC	PCM sync
13	BT_PCM_OUT	PCM output
14	BT_PCM_IN	PCM input

Product Introduction:

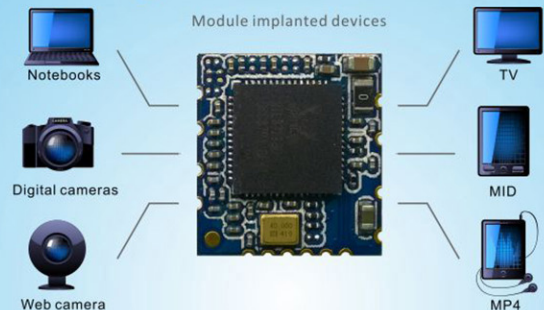
BL-R8723BT1 is a highly integrated single-chip 802.11n Wireless LAN (WLAN)USB 2.0 Multi-Function network interface controller with integrated Bluetooth 2.1/3.0/4.0 controller. It combines a WLAN MAC, a 1T1R capable WLAN baseband, and RF in a single chip. The BL-R8723BT1 provides a complete solution for a high-performance integrated wireless and Bluetooth device.

The integration provides better coordination between 802.11 and Bluetooth, and with sophisticated dynamic power control and packet traffic arbitration, BL-R8723BU is able to provide the best coexistence performance Overview.

General specification

Item	Description
The supported protocol and standard	WiFi: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n BT: V2.1+EDR/BT v3.0/BT v3.0+HS/BT v4.0
Interface type	USB2.0
The range of frequency	BT: 2.402-2.480GHz Wifi: 2.412-2.462GHz
The amount of working Channel	Wifi: 1-11 (America, Canada) BT: Ch. 0-78
Modulation Type	802.11b: CCK, DQPSK, DBPSK; 802.11g: 64-QAM, 16-QAM, QPSK, BPSK; 802.11n: 64-QAM, QPSK, BPSK BT: 8DPSK, π/4 DQPSK, GFSK
Working Mode	Infrastructure, Ad-Hoc
The transmitting rate	Wifi: 802.11b: 11, 5.5, 2, 1 Mbps; 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: 150Mbps (MAX) BT: 1 Mbps for Basic Rate; 2.3 Mbps for Enhanced Data Rate
Spread spectrum	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing) BT: FHSS(Frequency-Hopping Spread Spectrum) class
Sensitivity @PER	Wifi: 11M: -86dBm@8%25PER, 54M: -74dBm@10%PER 135M: -68dBm@10%PER BT: -89dBm@1Mbps, -85dBm@2Mbps, -83dBm@3Mbps
External Antenna Model No.	K509
Antenna manufacturer	Dongguan Dalang Electronics CO.,LTD
Antenna Gain	5dBi
Throughput	90Mbps
The connect type of antenna	Connect to the external antenna through the half hole
The transmit distance	Wifi: Indoor 100M, Outdoor 300M, according the local environment BT: 10M
Operating Temperature	Work temperature: 0°C ~ 40 °C Storage temperature: -20°C ~ +70°C
Operating System	XP/Win7/Win8/Win8.1/Linux/WinCE/Android
Working current	160mA
Size(L*W*H)	12*13.4*1.6mm
The chipset model	RTL8723BU

Product Diagram



Principle diagram



FC CE 0700

FCC Statment

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.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. such modifications could void the user's authority to operate this equipment. Any 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 FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates 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.

RF warning statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in Mobile exposure condition with a 20cm distance restriction. The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device, for example, USB dongle like transmitters is forbidden.

Co-location statement

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

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: S8J-R8723BT1 Or Contains FCC ID: S8J-R8723BT1 "

when the module is installed inside another device, the user manual of this device 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.