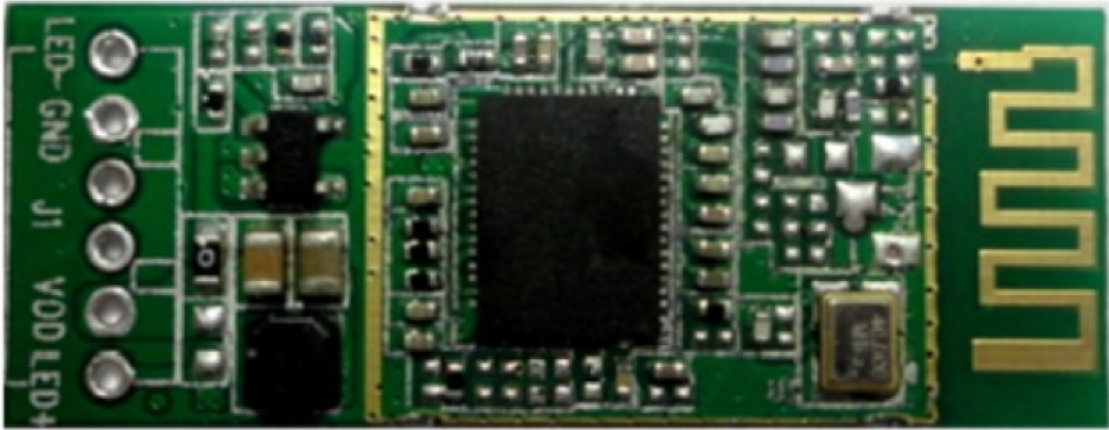


U15A-U

IEEE 802.11b/g/n USB Wireless Module

DATASHEET V1.0



Long Ben International Ltd

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Version	Date	Initials	Modification
V 1.0	2012-02-13	Sky	Release

1.Introduction

U15A-Umodule is a product which based on single chip (Ralink RT5370).Long Ben International Ltd have it's all intellectual property rights. U15A-Umodule has on-board PCB antenna, standard USB bus 2.0 agreement, low cost design, used in the tablet computer, embedded system, etc.

2.Features

Support USB 2.0

20MHZ/40MHZ Bandwidth

Support IEEE802.11 b/g/n with 150Mbps PHY Rate

Support WEP 64/128,WPA,WPA2,TKIP,AES,WAPI

Support Windows XP 32/64,2000, Windows 7,Vista 32/64,Linux,Macintosh OS

3.General Specifications

Model Name	U15A-U
Product Description	USB Wireless Module
WLAN Standard	IEEE 802.11b/g/n, Wi-Fi compliant
Host Interface	USB 2.0
Major Chipset	Ralink RT5370
Antenna	PCB on board
Dimension	35.1mm(L) X 13.5mm(W) X 2.1mm(H)
Weight	10 g
Conditions	
Operating Voltage	5V +/-5%
Operating Temperature	0°C ~50°C

Storage Temperature	-20°C~70°C
Operating Humidity	10% ~85% RH non-condensing
Storage Humidity	5% ~90% RH non-condensing
Electrical Specifications	
Frequency Range	2.4 GHz ISM Bands 2.412- 2.462GHz
Modulation	DBPSK, DQPSK, CCK
	OFDM, 16-QAM, 64-QAM
Output Power	802.11b : 12+/-2dBm
	802.11g : 12+/-2dBm
	802.11n : 12+/-2dBm
Receive Sensitivity	802.11b : -85dBm @ 8%PER
	802.11g : -65dBm @ 10%PER
	802.11n : -62dBm @ 10%PER
Data Rates	802.11b : MAX 11Mbps
	802.11g : MAX 54Mbps
	802.11n : MAX 150Mbps
Power Consumption	USB 5.0V 1.35W Max current 270mA
Operating Range	Indoor:~150M ,Open Space:~300M
	*The transmission speed may vary according to the environment
Security	WEP 64/128,WPA,WPA2,TKIP,AES,WAPI
Operating System Compatibility	WindowsXP32/64,2000,Windows7,Vista 32/64, Linux,Android,Macintosh
Regulatory	CE, FCC, RoHS

4.Product Picture



5.Pin Assignment

Pin No.	Definition	Basic Description	type
1	LED-	LED signal	Output
2	GND	Ground	
3	USB D+	Usb signal	Input/Output
4	USB D-	Usb signal	Input/Output
5	5V	5V power supply	Input
6	LED+	LED signal	Output

Note:

"U15A-U" contains channels of 1-11 and does not have region selection option.

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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

MPE Reminding

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l'antenne.

La FCC des états-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son fonctionnement.

Information for the OEM Integrators

This device is intended for OEM integrators only. Please see the full grant of equipment document for restrictions.

Label Information to the End User by the OEM or Integrators

If the FCC ID of this module is not visible when it is installed inside another device, then the outside of the device into which the module is installed must be label with "Contains FCC ID: YLZ-U15A and IC: 9088A- U15A".