深圳市小瑞科技股份有限公司
SHENZHEN RF-LINK TECHNOLOGY CO., LTD

PRODUCT MODEL (HVIN):

RL-UM02SPC-8812BU- V1.0

DESCRIPTION (PMN):

IEEE 802.11a/b/g/n/ac2T2RWLAN USB 2.0 WIFI MODEL

SAFETY REGULATION:

1. shall not arbitrarily change the frequency of transmission, increase the transmission power
2. (including the installation of radio frequency power amplifier);
3. it is not allowed to cause harmful interference to all kinds of legal radio communication. Once it is found that there is interference, it should be stopped immediately, and measures can be taken to eliminate interference before continuing to use it;
4. must be able to resist radiation interference of various radio or industrial / scientific / medical applications;
5. may not be used near airplane or airports.

NOTICE:

6. please keep this product and accessories attached to the places which children can't touch;
7. do not splash water or other liquid onto this product, otherwise it may cause damage;
8. do not put this product near the heat source or direct sunlight, otherwise it may cause deformationor malfunction;
9. please keep this product away from flammable or naked flame;
10. please do not repair this product by yourself. Only qualified personnel can be repaired.

FEATURES:

11. Compatible with IEEE 802.11b standard to provide wireless 11Mbps date rate.
    Compatible with IEEE 802.11g standard to provide wireless 54Mbps date rate.
    Compatible with IEEE 802.11a standard to provide wireless 54Mbps date rate.
    Compatible with IEEE 802.11n standard to provide wireless 300Mbps date rate.
    Compatible with IEEE 802.11ac standard to provide wireless 866.7Mbps date rate.
12. Support 20MHz, 40MHz, 80MHz in 5GHz band, and 20MHz,40MHz bandwidth in 2.4GHz band
13. The modulation type are DQPSK,DBPSK and CCK with DSSS to 802.11b; QPSK,BPSK,16QAM,64QAM with OFDM to 802.11g/a/n; QPSK,BPSK,16QAM,64QAM,256QAM with OFDM to 802.11ac;
14. Operation at 2.4GHz~2483.5GHz and 5.150-~5250，5.250~5.350 ,5.470~5.725GHz frequency band to meet worldwide regulations.
15. Provides simple legacy and 20MHz/40MHz/80MHz co-existence mechanisms to ensure backward and network compatibility.
16. Friendly user configuration and diagnostic utilities

17. Drivers support: Linux/Android/Windows
18. High speed USB 2.0 interface for WLAN and USB 1.1 .
19. RoHS compliant
20. Transmit power no more than 1000mW
21. Voltage is 3.3VDC

ENVIRONMENTAL:

Operating

Operating Temperature:	0℃ to+70℃
Relative Humidity:	5-90%non-condensing)

Storage

Temperature:	-20℃ to+85℃ (no-operating)
Relative Humidity:	5-90%non-condensing)

EU Declaration Conformity CE

Hereby, we (SMART Technologies Inc.) declared that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU
Address: 3636 Research Road NW Calgary, AB T2L 1Y1, Canada

Software/Hardware

Software Version:	RL-UM02SPC-8812BU-V1.0
Hardware Version:	rtl88x2bu v5.2.4.5_26498.20180205_Coex20171012- 5044

Working Frequency Maximum Transmit Power:

2412MHz to 2462MHz	Maximum E.I.R.P: 19.94 dBm
5180MHz to 5320MHz	Maximum E.I.R.P: 15.56 dBm
5500MHz to 5700MHz	Maximum E.I.R.P: 16.55 dBm

Legal Information
This device may be operated in all member states of the EU.
Observe national and local regulations where the device is used.
This device is restricted to indoor use only when operating in 5150MHz to 5350MHz frequency range in following countries:

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK

Compliance Information

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.

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

A host product shall use a physical label stating “Contains FCC ID: QCIIDXMOD1” or shall use e-labeling

The device is going to be operated in 5150~5250MHz frequency range. It is restricted indoor environment only.

Note: 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/television technician for help.

FCC Radiation Exposure Statement

This transmitter must not be co-location or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 7.9 inches (20 cm) between the radiator and your body.

Canadian ISED Statement
Déclaration ISED canadienne

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférences, et (2) cet appareil doit accepter toute interférence, y compris les interférences pouvant provoquer un fonctionnement indésirable de l'appareil.

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

Tout changement ou modification non expressément approuvé par la partie responsable de la conformité peut annuler l'autorité de l'utilisateur à utiliser l'équipement.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

Le dispositif utilisé dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire le risque de brouillage préjudiciable aux systèmes mobiles par satellite dans le même canal.

This radio transmitter (IC: 4302A-IDXMOD1) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device

Antenna Type:	Dipole Antenna
Antenna Gain:	2412 MHz to 2462 MHz: Max gain: 5.03 dBi 5150 MHz to 5250 MHz: Max gain: 3.20 dBi 5250 MHz to 5350 MHz: Max gain: 3.40 dBi 5470 MHz to 5725 MHz: Max gain: 5.36 dBi

Cet émetteur radio (IC: 4302A-IDXMOD1) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous avec le gain maximal admissible indiqué. Les types d'antennes non inclus dans cette liste, dont le gain est supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil

Type d'antenne	Antenne dipôle
Gain de l'antenne:	2412 MHz à 2462 MHz: Gain maximum: 5.03 dBi 5150 MHz à 5250 MHz: Gain maximum: 3.20 dBi 5250 MHz à 5350 MHz: Gain maximum: 3.40 dBi 5470 MHz à 5725 MHz: Gain maximum: 5.36 dBi

A host product shall use a physical label stating "Contains IC: 4302A-IDXMOD1" or shall use e-labeling

Un produit hôte doit utiliser une étiquette physique indiquant "Contient IC: 4302A-IDXMOD1" ou doit utiliser un étiquetage électronique.

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. Then it will scan the available radio signals. If this signal is connected before, it will be automatically connected, otherwise manual connections will be necessary.

L'appareil doit automatiquement interrompre la transmission en cas d'absence d'informations à transmettre, ou de panne opérationnelle. Ensuite, il va scanner les signaux radio disponibles. Si ce signal est connecté auparavant, il sera automatiquement connecté, sinon des connexions manuelles seront nécessaires.

ISED Radiation Exposure Statement:

Déclaration d'exposition aux rayonnements ISED :

This equipment complies with IC RF radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux radiations RF IC définies pour un environnement non contrôlé

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet émetteur ne doit pas être situé au même endroit ou fonctionner conjointement avec une autre antenne ou émetteur

This equipment should be installed and operated with minimum distance 7.9 inches (20 cm) between the radiator & your body.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm (7,9 pouces) entre le radiateur et votre corps.