

CDW-U8851BU-01**Dual-band WiFi6 11ax + BT5.3 Module Spec****(USB2.0, BW80M, 1T1R, IPEX antenna type, Shielded cover)****Software:**

Customer	Approve	Date

Design	Check	Approve	Version	Date
			V1.1	2026.03.10

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Reversion History:

Version	Date	Modification
1.0	2025.06.19	First release
1.1	2026.03.10	Update Modular photo

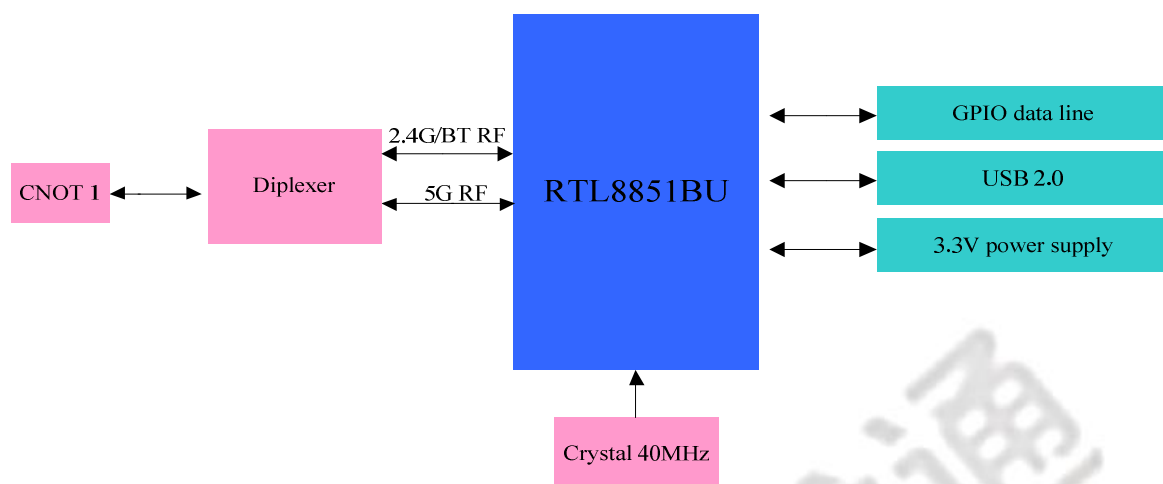
The CDW-U8851BU-01 is a highly integrated single-chip that support 1-stream 802.11ax solutions with Wireless LAN (WLAN)USB interface controller.It combines a WLAN MAC,a 1T1R capable WLAN baseband,and RF in a single chip.

The CDW-U8851BU-01 provides a complete solution for a high-performance integrated wireless and Bluetooth device.

2. Features

- IEEE 802.11a/b/g/n/ac/ax compliant WLAN
- 5MHz / 10MHz / 20MHz / 40MHz / 80MHzbandwidth transmission
- Complies with USB2.0 for WLAN
- Support STBC,LDPC
- support QoS Enhancement(WMM)
- Security support for WPA/WPA2/WPA3
- Bluetooth specification 2.1/3.0/4.2
- Bluetooth 5.3
- HSF compliant

3. Block Diagram



4. General Specification

Model	CDW-U8851BU-01
Product Name	WiFi 11a/b/g/n/ac/ax 1T1R and BT5.3 Module
Major Chipset	Realtek RTL8851BU-VF1-CG
Standard	IEEE802.11a/b/g/n/ac/ax, BT V2.1+EDR/ 4.2 /5.3
Data Transfer Rate	Max:600 Mbps
Modulation Method	DSSS/DBPSK/DQPSK/16-QAM/ 64-QAM/256QAM/1024QAM
Frequency Band	2.4~2.4835GHz , 5.0~5.8 GHz
Spread Spectrum	IEEE 802.11b: DSSS IEEE802.11a/g/n/ac/ax: OFDM
Operating Voltage	3.3V
Current Consumption	Max:2000mA
Interface	Wi-Fi : USB2.0, Bluetooth : USB2.0
Operating Temperature	0~ +70° C ambient temperature
Storage Temperature	-40 ~+80°C ambient temperature
Humidity	5 to 90 % maximum (non-condensing)
Dimension	19.0x16.0x2.5mm (LxWxH)±0.2mm

5. Electrical Characteristics

WiFi Section:

5.1 2.4GHz RF Specification

Feature	Description
WLAN Standard	IEEE 802.11b/g/n/ax WiFi compliant
Frequency Range	2.400 GHz ~ 2.4835 GHz (2.4 GHz ISM Band)
Number of Channels	2.4GHz: CH1 ~ CH11
Modulation	802.11b : DQPSK, DBPSK, CCK 802.11 g/n : OFDM /64-QAM, 16-QAM, QPSK, BPSK 802.11ax : OFDMA /1024-QAM、256-QAM、64-QAM、16-QAM、
Output Power	802.11b /11Mbps : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -15dB
	802.11g /54Mbps : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -25dB
	802.11n /MCS7 : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -28dB
	802.11ax /MCS11 : 15 dBm $\pm$ 2 dB @ EVM $\leq$ -35dB
Receive Sensitivity (11b,20MHz)	- 1Mbps PER $\leq$ 8% @ -98 dBm $\leq$ -83 dBm
	- 11Mbps PER $\leq$ 8% @ -83 dBm $\leq$ -76 dBm
Receive Sensitivity (11g,20MHz)	- 6Mbps PER $\leq$ 10%@ -94 dBm $\leq$ -85 dBm
	- 54Mbps PER $\leq$ 10%@ -71 dBm $\leq$ -68 dBm
Receive Sensitivity (11n,20MHz)	- MCS=0 PER $\leq$ 10%@ -94 dBm $\leq$ -85 dBm
	- MCS=7 PER $\leq$ 10%@ -69 dBm $\leq$ -67dBm
Receive Sensitivity (11n,40MHz)	- MCS=0 PER $\leq$ 10%@ -91 dBm $\leq$ -82dBm
	- MCS=7 PER $\leq$ 10%@ -66 dBm $\leq$ -64dBm
Receive Sensitivity (11ax,20MHz)	- MCS=0 PER $\leq$ 10%@ -94 dBm $\leq$ -82 dBm
	- MCS=11 PER $\leq$ 10%@ -68 dBm $\leq$ -52dBm
Receive Sensitivity (11ax,40MHz)	- MCS=0 PER $\leq$ 10%@ -91 dBm $\leq$ -79dBm
	- MCS=11 PER $\leq$ 10%@ -55 dBm $\leq$ -49dBm
Maximum Input Level	802.11b : -10 dBm
	802.11g/n/ax : -20 dBm
Antenna Reference	

5.2 5GHz RF Specification

Feature	Description
WLAN Standard	IEEE 802.11a/n/ac
Frequency Range	4.900 GHz ~ 5.845 GHz (5.0 GHz ISM Band)
Number of Channels	CH36-CH165
Modulation	802.11a : OFDM /64-QAM,16-QAM, QPSK, BPSK 802.11n : OFDM /64-QAM,16-QAM, QPSK, BPSK 802.11ac : OFDM /256-QAM/64-QAM,16-QAM, QPSK, BPSK 802.11ax:OFDM /1024-QAM/256-QAM/64-QAM,16-QAM,QPSK, BPSK
Output Power	802.11a /54Mbps : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -25dB 802.11n HT20 /MCS7 : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -28dB 802.11n HT40 /MCS7 : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -28dB 802.11ac VHT20 /MCS8 : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -30dB 802.11ac VHT40 /MCS9 : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -32dB 802.11ac VHT80 /MCS9 : 16 dBm $\pm$ 2 dB @ EVM $\leq$ -32dB 802.11ax HE20 /MCS11 : 15 dBm $\pm$ 2 dB @ EVM $\leq$ -35dB 802.11ax HE40 /MCS11 : 15 dBm $\pm$ 2 dB @ EVM $\leq$ -35dB 802.11ax HE80 /MCS11 : 15 dBm $\pm$ 2 dB @ EVM $\leq$ -35dB
Receive Sensitivity (11a,20MHz)	- 6Mbps PER $\leq$ 10%@ -90 dBm $\leq$ -85 dBm - 54Mbps PER $\leq$ 10%@ -71 dBm $\leq$ -68 dBm
Receive Sensitivity (11n,20MHz)	- MCS=0 PER $\leq$ 10%@ -90 dBm $\leq$ -85 dBm - MCS=7 PER $\leq$ 10%@ -69 dBm $\leq$ -67 dBm
Receive Sensitivity (11n,40MHz)	- MCS=0 PER $\leq$ 10%@ -90 dBm $\leq$ -82 dBm - MCS=7 PER $\leq$ 10%@ -66 dBm $\leq$ -64dBm
Receive Sensitivity (11ac,20MHz)	- MCS=0, NSS1 PER $\leq$ 10%@ -92 dBm $\leq$ -82 dBm - MCS=8, NSS1 PER $\leq$ 10%@ -69 dBm $\leq$ -60 dBm
Receive Sensitivity (11ac,40MHz)	- MCS=0, NSS1 PER $\leq$ 10%@ -89 dBm $\leq$ -79 dBm - MCS=9, NSS1 PER $\leq$ 10%@ -65 dBm $\leq$ -55 dBm
Receive Sensitivity (11ac,80MHz)	- MCS=0, NSS1 PER $\leq$ 10%@ -86 dBm $\leq$ -79 dBm - MCS=9, NSS1 PER $\leq$ 10%@ -55 dBm $\leq$ -54 dBm
Receive Sensitivity (11ax,20MHz)	- MCS=0 PER $\leq$ 10%@ -94 dBm $\leq$ -82 dBm - MCS=11 PER $\leq$ 10%@ -66 dBm $\leq$ -52 dBm
Receive Sensitivity (11ax,40MHz)	- MCS=0 PER $\leq$ 10%@ -92 dBm $\leq$ -79 dBm - MCS=11 PER $\leq$ 10%@ -62 dBm $\leq$ -49 dBm
Receive Sensitivity (11ax,80MHz)	- MCS=0 PER $\leq$ 10%@ -89 dBm $\leq$ -73 dBm - MCS=11 PER $\leq$ 10%@ -50 dBm $\leq$ -43 dBm
Maximum Input Level	802.11a/n/ac/ax : -20 dBm
Antenna Reference	

5.3 Bluetooth Section:

Feature	Description		
General Specification			
Bluetooth Standard	Bluetooth V2.1+EDR /4.2/5.3		
Host Interface	USB2.0		
Frequency Band	2402 MHz ~ 2480 MHz		
Number of Channels	79 channelsfor BDR+EDR 40 channelsfor BLE		
Modulation	FHSS, GFSK, DPSK, DQPSK		
RF Specification			
	Min	Typical	Max
BDR Output Power		6 dBm	
BLE Output Power		6 dBm	
Sensitivity @ BER=0.1% for GFSK (1Mbps)		-86 dBm	
Sensitivity @ BER=0.01% for π/4-DQPSK (2Mbps)		-86 dBm	
Sensitivity @ BER=0.01% for 8DPSK (3Mbps)		-80 dBm	
Sensitivity @ PER=30.8% for BLE		-90dBm	
Maximum Input Level	GFSK (1Mbps):-20dBm		
	π/4-DQPSK (2Mbps) :-20dBm		
	8DPSK (3Mbps) :-20dBm		

6. DC Characteristics

Symbol	Parameter	Min.	Typ.	Max	Units
VD33	3.3V I/O supply Voltage	3.0	3.3	3.6	V
VD33	3.3V Rating Current	--	--	2000	mA
VD09	0.9V Core Supply Voltage	--	0.9	--	V
V _{IH}	Input high Voltage	1.4	3.3	3.6	V
V _{IL}	Input low Voltage	--	0	0.8	V
V _{OH}	output high Voltage	2.97	--	3.3	V
V _{OL}	output low Voltage	0	--	0.33	V

7. Interface Timing Specification

7.1 USB Bus during Power On Sequence



Ton: The main power ramp up duration

Ten: Interval between the rising point of 3.3V and chip_en

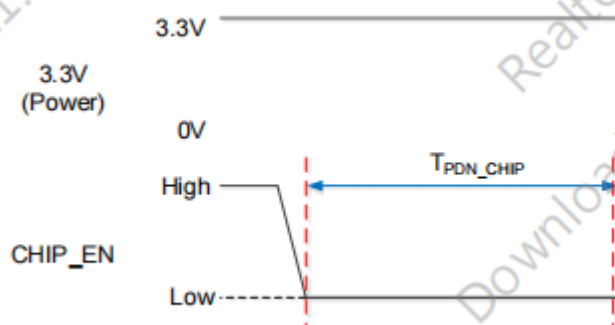
Tgate: Interval of 3.3V to be gated when chip_en voltage level < 2V

Tattach: USB attach state. The duration from resistor attached to USB host starting card detection procedure

	Unit	Min.	Typical	Max.
Ton	ms	—	1.5	5
Ten	ms	0	0	5
Tgate	ms	0	1.5	8
Tattach	ms	100	250	—

Typical Timing Range

7.2 RTL8851BU-VF1-CG Power off Sequence

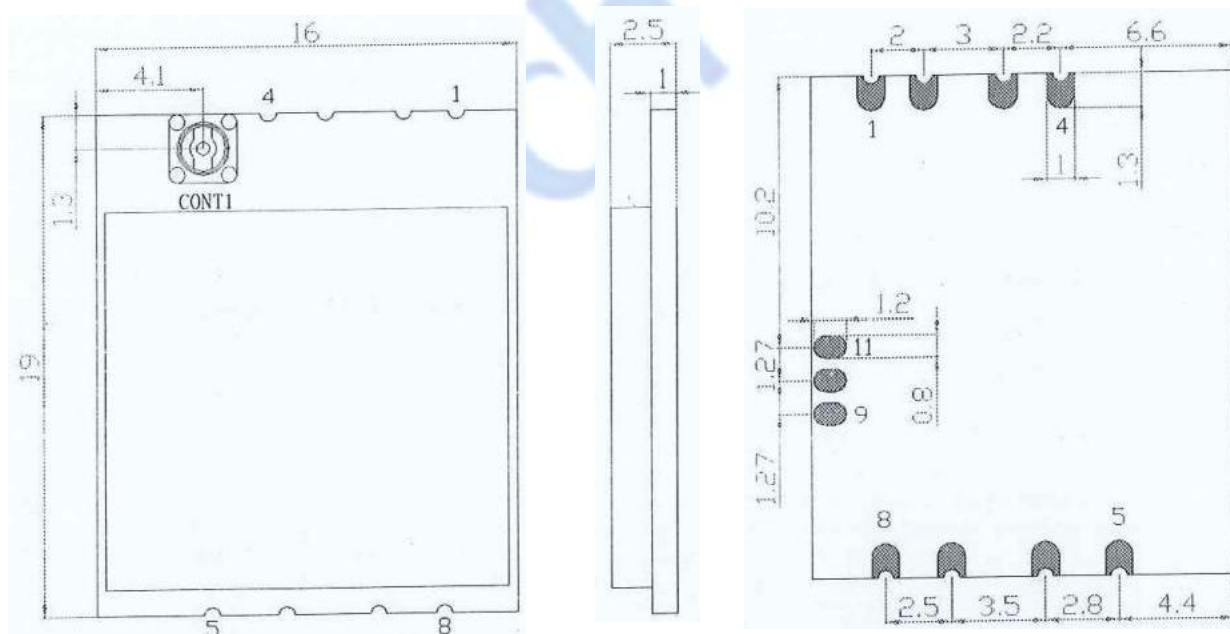


	Min.	Typical	Max.	Unit	Description
T_{PDN CHIP}	10	100	X	ms	CHIP EN keep low duration

RTL8851BU-VF1-CG Power Off Timing Parameters

Reset can externally shutdown the RTL8851BU-VF1-CG when Reset is pulled low. The keeping low duration must be more than T_{PDN_CHP} .

8. Mechanical Dimensions (Unit:mm)



9. Pin Description

NO	Name	Type	Description
1	GND	—	GND
2	NC	—	NC
3	NC	—	NC
4	GND	—	GND
5	VDD3.3	P	3.3V
6	DM	—	USB D-
7	DP	—	USB D+
8	GND	—	GND
9	Reset	I	RESET (Internal pull high, low effective)
10	WL_FW_log	-	WL FW log
11	WL_WAKE_HOST	O	WIFI Wake Host (Internal pull high, low effective)
	CONT1	—	WIFI/BT

10. Modular photo



11. Supplier

Supplier list	
Name of material	Material brand
Crystal	JWT/FK/TKD/Murata/TXC
Duplexer	ACX/GLEAD/Sunlord/Walsin
Inductor	Sunlord/ CHILISIN/ SAMWHA/Murata
Wifi chip	Realtek
Capacitance	SAMSUNG /EYANG
Resistance	UniOhm /YAGEO
PCB(19.0x16.0x1.0mm)	A,O,I,F,D,T

12. Warpage



gap $\leq$ 0.1mm

13. Baking & storage temperature & Recommended Reflow Profile

13.1 Baking & storage temperature

A. Storage life: 12 months. Storage conditions: $<40^{\circ}\text{C}$. Relative humidity: $<90\%\text{R.H.}$

B. After this bag is opened, devices that will be subjected to infrared reflow, vapor-phase reflow, or equivalent processing must be.

a. Check the humidity card: stored at $\leq 20\%\text{RH}$. If $30\%\sim 40\%$ (pink) or greater than 40% (red). Labeling module has moisture absorption.

b. Mounted within 168 hours at factory conditions of: $t \leq 30^{\circ}\text{C}$, $\leq 60\%\text{R.H.}$

c. Once opened, the workshop the preservation of life for 168 hours.

C. Module apart packing after 168 hours, If baking is required, devices may be baked for.

a. Modules must be to remove module moisture problem.

b. Baking temperature: $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, 120 hours.

c. After baking, put proper amount of desiccant to seal packages.

C. Module reel packaging items as follows:

a. Storage life: 12 months. Storage conditions: $<40^{\circ}\text{C}$. Relative humidity: $<90\%\text{R.H.}$

b. Module apart packing after 168 hours, To launch patch need to bake, to move the module hygroscopic, baking temperature conditions: 125°C , 8 hours.

c. The actual number of module reel packing which is based on the actual number of packages to the customer requirements.

E. Module pallet packaging items as follows:

a. Storage life: 3 months. Storage conditions: $<40^{\circ}\text{C}$. Relative humidity: $<90\%\text{R.H.}$

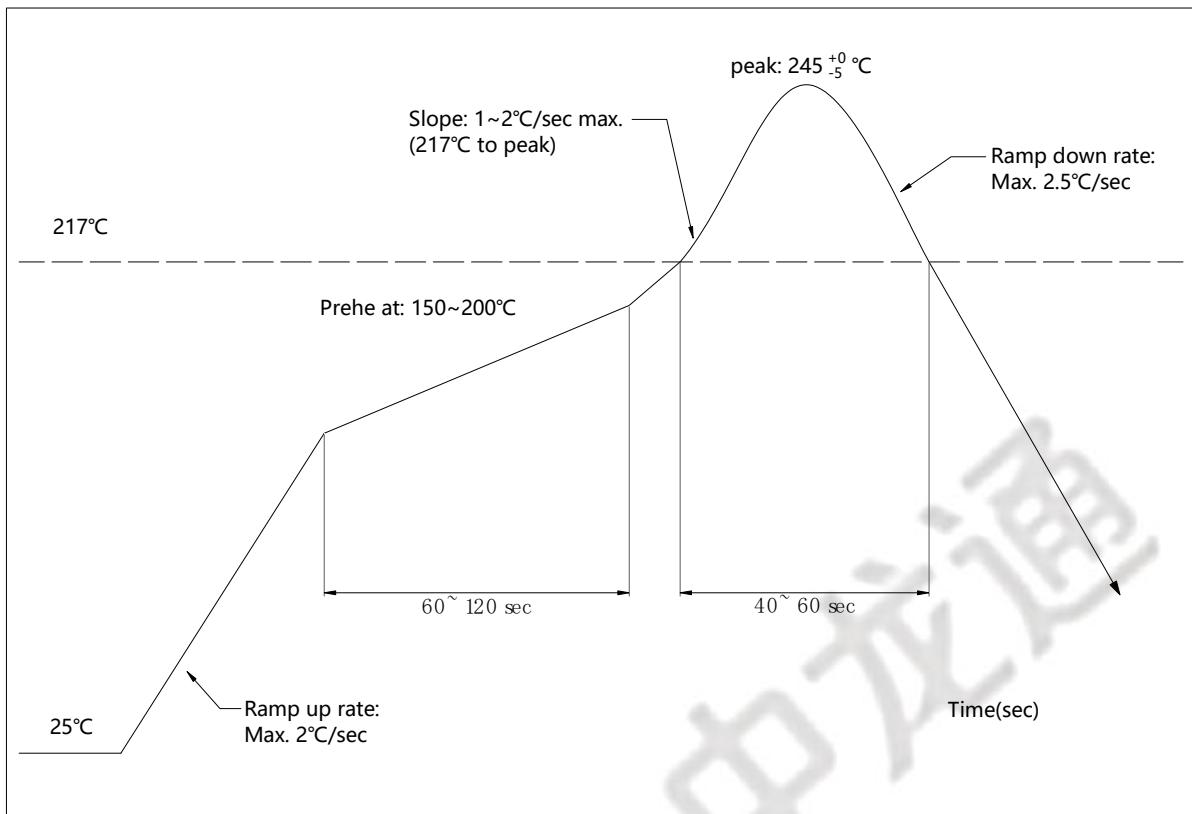
- b. Module if not used within 48 hours, before launch the need for baking, baking temperature: 125°C , 8 hours.
- c. Pallet packaging each plate is 100 PCS. The actual number of module pallet packing which is based on the actual number of packages to the customer requirements.

13.2 Recommended Reflow Profile

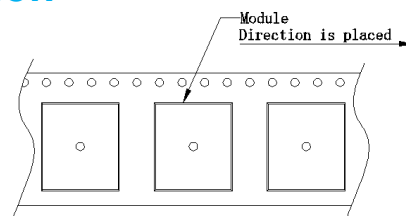
Referred IPC/JEDEC standard.

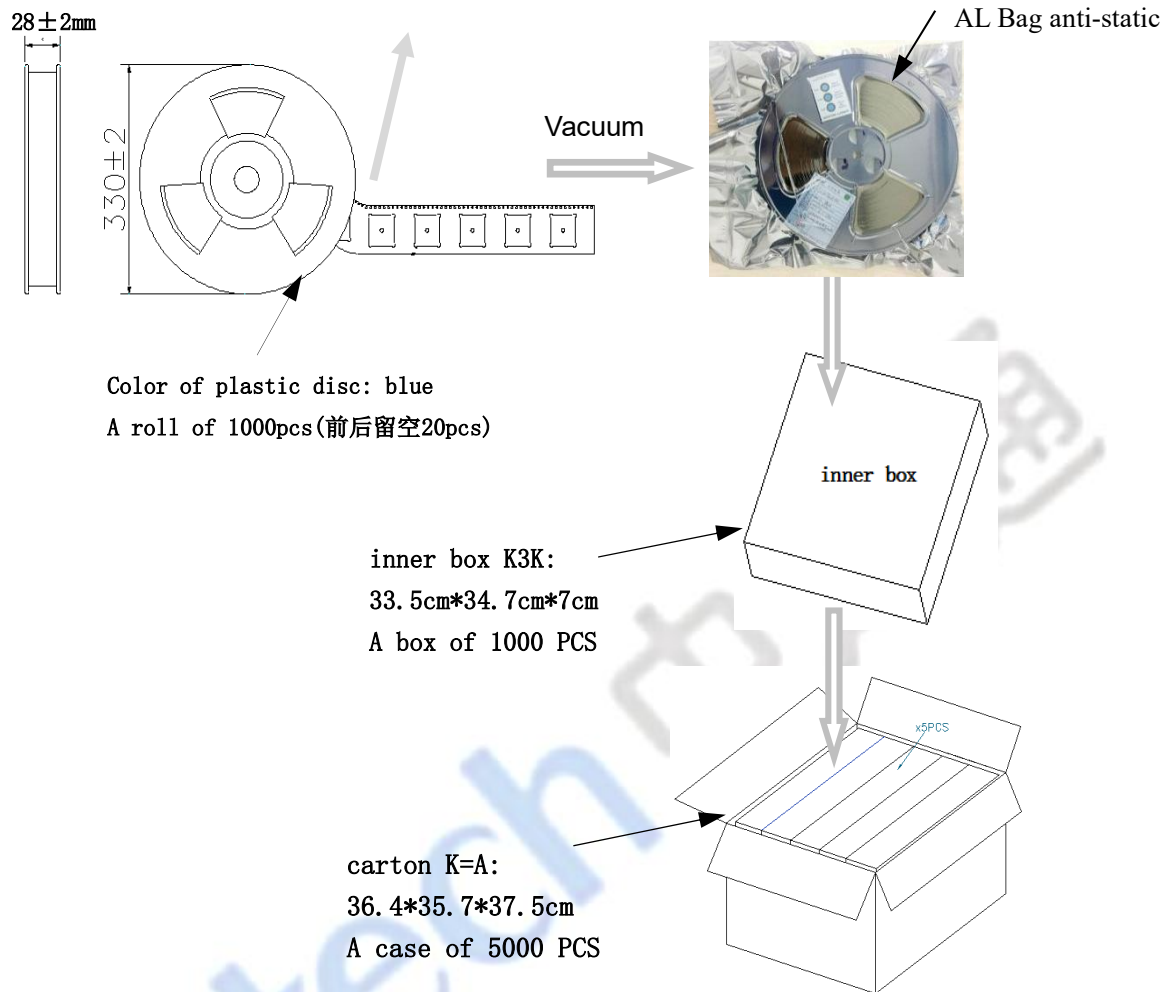
Peak Temperature : <250°C

Number of Times : ≤2 times



14. Packing information





ESD CAUTION

The CDW-U8851BU-01 is ESD (electrostatic discharge) sensitive device and may be damaged with ESD or spike voltage. Although CDW-U8851BU-01 is with built-in ESD protection circuitry, please handle with care to avoid the permanent malfunction or the performance degradation.

FCC WARNING

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. 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. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

15.105 Information to the user.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

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/TV technician for help.

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

Radiation Exposure Statement:

This equipment complies with FCC 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.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination.

The firmware setting is not accessible by the end user.

The final end product must be labelled in a visible area with the following:

“Contains Transmitter Module 2BN5S-2510A”

Requirement per KDB996369 D03

2.2 List of applicable FCC rules

List the FCC rules that are applicable to the modular transmitter. These are the rules that specifically establish the bands of operation, the power, spurious emissions, and operating fundamental frequencies. DO NOT list compliance to unintentional-radiator rules (Part 15 Subpart B) since that is not a condition of a module grant that is extended to a host manufacturer. See also Section 2.10 below concerning the need to notify host manufacturers that further testing is required.³

Explanation: This module meets the requirements of FCC part 15C(15.247).FCC Part 15.407

2.3 Summarize the specific operational use conditions

Describe use conditions that are applicable to the modular transmitter, including for example any limits on antennas, etc. For example, if point-to-point antennas are used that require reduction in power or compensation for cable loss, then this information must be in the instructions. If the use condition limitations extend to professional users, then instructions must state that this information also extends to the host manufacturer's instruction manual. In addition, certain information may also be needed, such as peak gain per frequency band and minimum gain.

Explanation: The EUT only have one FPC antenna, Yes, the module contains a permanently attached antenna, The antenna gain is BLE/BT/WIFI 2.4G:5.19dBi, and WIFI 5.1G:6.05dBi and WIFI 5.3G:5.58dBi and WIFI 5.6G:4.30dBi and WIFI 5.8G:3.50dBi . The use condition of the prototype is mobile.

2.4 Limited module procedures

If a modular transmitter is approved as a "limited module," then the module manufacturer is responsible for approving the host environment that the limited module is used with. The manufacturer of a limited module must describe, both in the filing and in the installation instructions, the alternative means that the limited module manufacturer uses to verify that the host meets the necessary requirements to satisfy the module limiting conditions.

A limited module manufacturer has the flexibility to define its alternative method to address the conditions that limit the initial approval, such as: shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation. The alternative method could include that the limited module manufacturer reviews detailed test data or host designs prior to giving the host manufacturer approval.

This limited module procedure is also applicable for RF exposure evaluation when it is necessary to demonstrate compliance in a specific host. The module manufacturer must state how control of the product into which the modular transmitter will be installed will be maintained such that full compliance of the product is always ensured. For additional hosts other than the specific host originally granted with a limited

module, a Class II permissive change is required on the module grant to register the additional host as a specific host also approved with the module.

Explanation: The module is a single module.

2.5 Trace antenna designs

For a modular transmitter with trace antenna designs, see the guidance in Question 11 of KDB Publication 996369 D02 FAQ – Modules for Micro-Strip Antennas and traces. The integration information shall include for the TCB review the integration instructions for the following aspects: layout of trace design, parts list (BOM), antenna, connectors, and isolation requirements.

- a) Information that includes permitted variances (e.g., trace boundary limits, thickness, length, width, shape(s), dielectric constant, and impedance as applicable for each type of antenna);
- b) Each design shall be considered a different type (e.g., antenna length in multiple(s) of frequency, the wavelength, and antenna shape (traces in phase) can affect antenna gain and must be considered);
- c) The parameters shall be provided in a manner permitting host manufacturers to design the printed circuit (PC) board layout;
- d) Appropriate parts by manufacturer and specifications;
- e) Test procedures for design verification; and
- f) Production test procedures for ensuring compliance.

The module grantee shall provide a notice that any deviation(s) from the defined parameters of the antenna trace, as described by the instructions, require that the host product manufacturer must notify the module grantee that they wish to change the antenna trace design. In this case, a Class II permissive change application is required to be filed by the grantee, or the host manufacturer can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.

Explanation: No, The module has no tracking antenna design, is FPC antenna.

2.6 RF exposure considerations

It is essential for module grantees to clearly and explicitly state the RF exposure conditions that permit a host product manufacturer to use the module. Two types of instructions are required for RF exposure information: (1) to the host product manufacturer, to define the application conditions (mobile, portable – xx cm from a person's body); and (2) additional text needed for the host product manufacturer to provide to end users in their end-product manuals. If RF exposure statements and use conditions are not provided, then the host product manufacturer is required to take responsibility of the module through a change in FCC ID (new application).

Explanation: This module 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 20 centimeters between the radiator and your body." This

module is designed to comply with the FCC statement,
FCC ID: 2BN5S-2510A

2.7 Antennas

A list of antennas included in the application for certification must be provided in the instructions. For modular transmitters approved as limited modules, all applicable professional installer instructions must be included as part of the information to the host product manufacturer. The antenna list shall also identify the antenna types (monopole, PIFA, dipole, etc. (note that for example an “omni-directional antenna” is not considered to be a specific “antenna type”)).

For situations where the host product manufacturer is responsible for an external connector, for example with an RF pin and antenna trace design, the integration instructions shall inform the installer that unique antenna connector must be used on the Part 15 authorized transmitters used in the host product. The module manufacturers shall provide a list of acceptable unique connectors.

Explanation: The EUT only have one FPC antenna, Yes, the module contains a permanently attached antenna, The antenna gain is BLE/BT/WIFI 2.4G:5.19dBi, and WIFI 5.1G:6.05dBi and WIFI 5.3G:5.58dBi and WIFI 5.6G:4.30dBi and WIFI 5.8G:3.50dBi.

2.8 Label and compliance information

Grantees are responsible for the continued compliance of their modules to the FCC rules. This

includes advising host product manufacturers that they need to provide a physical or e-label stating “Contains FCC ID” with their finished product. See Guidelines for Labeling and User Information for RF Devices – KDB Publication 784748.

Explanation: The host system using this module, should have label in a visible area indicated the following texts: "Contains FCC ID: 2BN5S-2510A

2.9 Information on test modes and additional testing requirements

Additional guidance for testing host products is given in KDB Publication 996369 D04 Module Integration Guide. Test modes should take into consideration different operational conditions for a stand-alone modular transmitter in a host, as well as for multiple simultaneously transmitting modules or other transmitters in a host product.

The grantee should provide information on how to configure test modes for host product evaluation for different operational conditions for a stand-alone modular transmitter in a host, versus with multiple, simultaneously transmitting modules or other transmitters in a host.

Grantees can increase the utility of their modular transmitters by providing special means, modes, or instructions that simulates or characterizes a connection by enabling a transmitter. This can greatly simplify a host manufacturer's determination that a module as installed in a host complies with FCC requirements.

Explanation: WiFiRanger, A CHINA DRAGON TECHNOLOGY LIMITED can increase the utility of our modular transmitters by providing instructions that simulates or characterizes a connection by enabling a transmitter.

2.10 Additional testing, Part 15 Subpart B disclaimer

The grantee should include a statement that the modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. If the grantee markets their product as being Part 15

Subpart B compliant (when it also contains unintentional-radiator digital circuitry), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

Explanation: The host should be evaluated by the FCC Subpart B.

This product uses FPC antenna with a maximum antenna gain of BLE/BT/WIFI 2.4G:5.19dBi, and WIFI 5.1G:6.05dBi and WIFI 5.3G:5.58dBi and WIFI 5.6G:4.30dBi and WIFI 5.8G:3.50dBi

2.11 Note EMI Considerations

Note that a host manufacture is recommended to use D04 Module Integration Guide recommending as "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties

For standalone mode, reference the guidance in D04 Module Integration Guide and for simultaneous mode; see D02 Module Q&A Question 12, which permits the host manufacturer to confirm compliance.

Explanation: The customer is an independent module and has been implemented in accordance with D04.

2.12 How to make changes

Since only Grantees are permitted to make permissive changes, it is recommended that module manufactures provide contact information and some guidance to host providers in the integration instructions if they expect their module will be used differently than granted.

Explanation: Contact Information: We have provided our technical support contact (email: chenyx2@reolink.com.cn) for host manufacturers to reach us regarding any proposed changes to the module's operational conditions or integration method.