

SDC103A

USB-Dongle

User Manual

Short-Range Products

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About the Document

Revision History

Version	Date	Author	Description
-	2025-07-25	Nano Wang	Creation of the document
1.0	2025-08-06	Nano Wang/Wain Zhao	First official release

Safety Information

When operating and installing this equipment, you must follow the safety information in the product labels and this user manual.

The "DANGER", "WARNING", and "CAUTION" items mentioned in this document are only supplementary to the safety matters and do not represent all safety matters.

General

Installation

Personnel who install, operate, and maintain this product must understand all safety precautions and master the correct methods before installation, operation, and maintenance. Please follow these basic installation requirements:

- The product must be installed, operated, and maintained by trained personnel.
- The product must be serviced by Quectel-authorized personnel.
- The replacement of parts must be performed by Quectel-authorized personnel.
- If malfunctions or abnormalities occur due to installation, the operator must contact Quectel in time.
- Strictly follow the factory assembly method after installation, otherwise it may affect the product performance.

Personal Safety

- Keep the product away from children.

Product Safety

- Keep the product away from fire and heat sources. Do not throw it into fire to avoid fire hazards or damage to the product.
- Avoid subjecting the product to severe vibration, impact, or compression to prevent damage to internal components or product failure.
- Pay attention to waterproof measures and ensure that the product interfaces are protected from water spray or immersion to prevent damage or malfunction.
- Do not attempt to disassemble or repair the product yourself, as this may cause safety risks or damage to the internal structure.
- Ensure the product is securely installed in a stable and reliable manner, whether on table, wall, or rack.
- Do not block or cover the product's ventilation openings.

Electrical Safety

ESD Protection

- To prevent electrostatic discharge (ESD) damage from friction or movement, the operator must take appropriate ESD precautions before installing, operating, or maintaining the product.
- Before touching or handling the product, the operator must wear an anti-static wristband and connect it to a grounded surface.

Compliance Information

European Union (EU)

This product and applicable accessories are CE-certified and strictly comply with the following harmonized European Union (EU) directives:

- Radio Equipment Directive (RED) 2014/53/EU: Compliance for wireless/RF devices (e.g., Wi-Fi, Bluetooth).
- Restriction of Hazardous Substances Directive (RoHS) 2011/65/EU: Restrictions on hazardous substances (e.g., lead, mercury).
- Waste Electrical and Electronic Equipment Directive (WEEE) 2012/19/EU: Obligations for e-waste recycling.
- Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH): Chemical substance regulations.

North America

United States:

- FCC Part 15 (CFR 47): EMI/EMC compliance for digital/radio frequency devices.

Canada:

- ISED RSS Standards: RF compliance (e.g., RSS-247 for Wi-Fi devices).

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1 Product Overview

SDC103A is a high-performance IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E USB dongle.

1.1 Technical Specifications

1.1.1 Key Features

Table 1: Key Features

Basic Information	
Protocols and Standard	- Wi-Fi protocols: IEEE 802.11a/b/g/n/ac/ax - All hardware components are fully compliant with EU RoHS directive
Power Supplies	VBAT Power Supply: 4.0–5.5 V - Typ.: 5 V
Temperature Ranges	- Operating temperature: -10 °C to +70 °C - Storage temperature: -40 °C to +85 °C
Dimensions	(88.2 ±0.2) mm × (29.7 ±0.2) mm × (10.5 ±0.2) mm
Weight	Approx. 21.04 g
Antenna	
Wi-Fi Antenna	- PCB antenna 50 Ω characteristic impedance
Application Interface	
Application Interface	USB

1.1.2 RF Operating Frequency

Operating Frequency

- **2.4 GHz:** 2.400–2.4835 GHz
- **5 GHz:** 5.150–5.850 GHz
- **6 GHz:** 5.945–7.125 GHz

Modulation

DBPSK, DQPSK, CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM

Operating Mode

STA

Encryption Mode

WPA, WPA2, WPA3

Transmission Data Rate

- 802.11b: 1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps
- 802.11a/g: 6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps
- 802.11n: HT20 (MCS 0–MCS 7), HT40 (MCS 0–MCS 7)
- 802.11ac: VHT20 (MCS 0–MCS 8), VHT40 (MCS 0–MCS 9), VHT80 (MCS 0–MCS 9), VHT160 (MCS 0–MCS 9)
- 802.11ax: HE20 (MCS 0–MCS 11), HE40 (MCS 0–MCS 11), HE80 (MCS 0–MCS 11), HE160 (MCS 0–MCS 11)

2 Appearance, Interface and Dimensions

This section displays images that represent the appearance, interfaces, and dimensions. These exhibited images serve illustrative purpose only and may not accurately reflect the actual product. To view the authentic appearance and label, please refer to the product you have received from Quectel.

2.1 Appearance



Figure 1: Product 3D Graphics

2.2 Interfaces

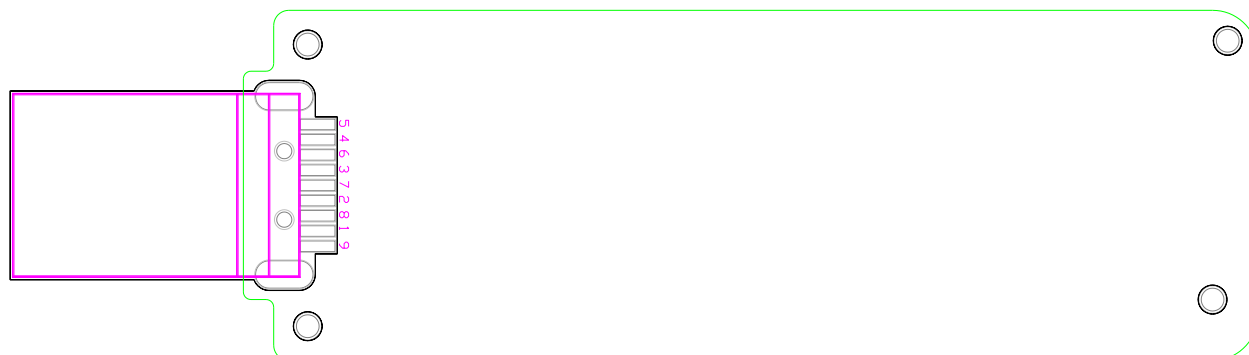


Figure 2: Pin Assignment (Top View)

Table 2: Pin Description

Power Supply and GND Pins					
Pin Name	Pin No.	I/O	Description	DC Characteristic	Comment
VBAT	1	PI	Power supply for the product	Vmin = 4.0 V Vnom = 5.0 V Vmax = 5.5 V	
GND	4, 7				
Wi-Fi Application Interfaces					
Pin Name	Pin No.	I/O	Description	DC Characteristic	Comment
D-	2	DI	USB 2.0 differential pair		
D+	3	DO			
Stda_SSRX-	5	DI	SuperSpeed transmitter differential pair		
Stda_SSRX+	6	DI			
Stda_SSTX-	8	DO	SuperSpeed receiver differential pair		
Stda_SSTX+	9	DO			

2.3 Dimensions

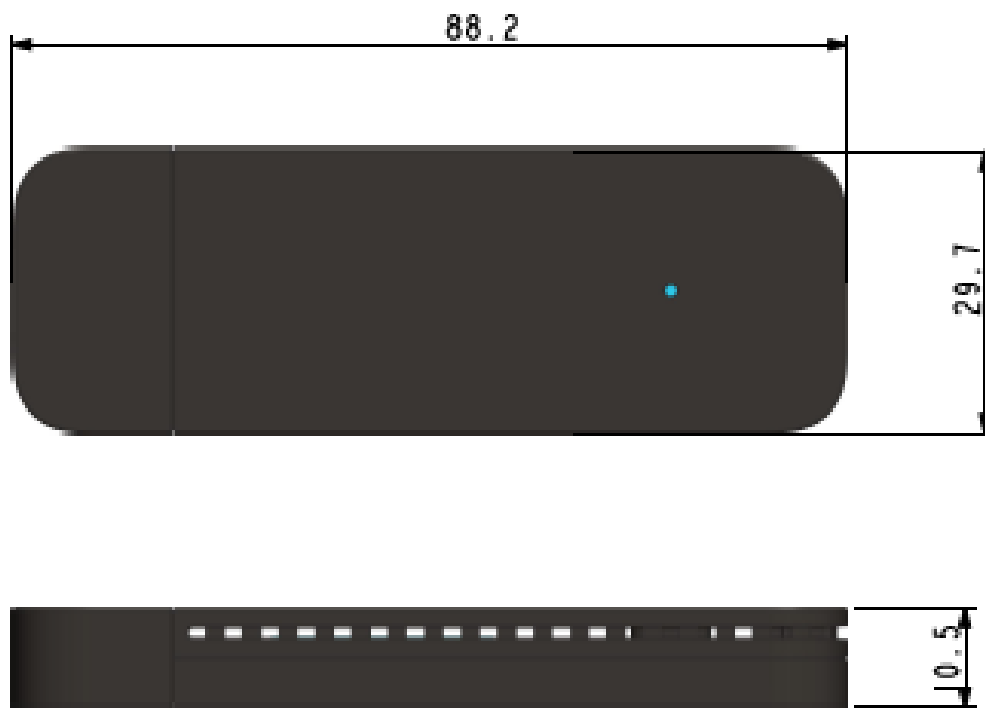


Figure 3: Detailed Dimensions (Unit: mm)

3 Operating Instructions

3.1 Software Setup

When the SDC103A USB dongle is first connected to a system without preinstalled WLAN drivers, Windows "Device Manager" will display an unidentified device labeled "802.11ax WLAN Adapter". This chapter describes how to install the driver.

Step 1: Right click  and select "**Device Manager**" from the pop-up menu.

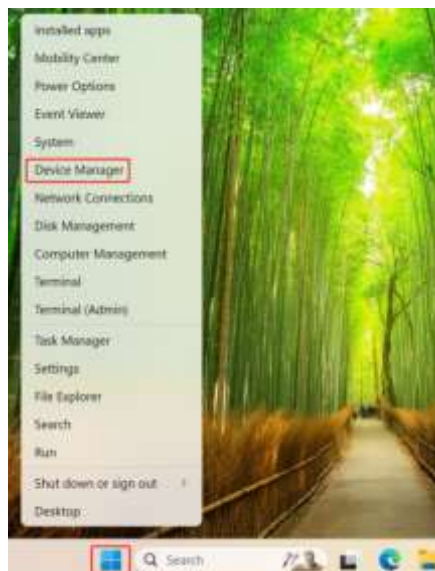


Figure 4: Open the "Device Manager" Pane

Step 2: Right click "**802.11ax WLAN Adapter**" and select "**Update driver**" from the pop-up menu.

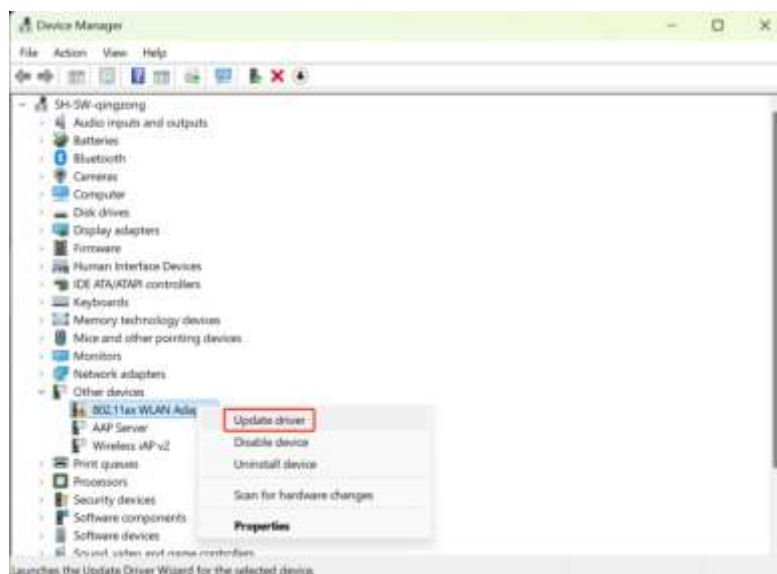


Figure 5: Select "Update driver"

Step 3: Select "Browse my computer for drivers".

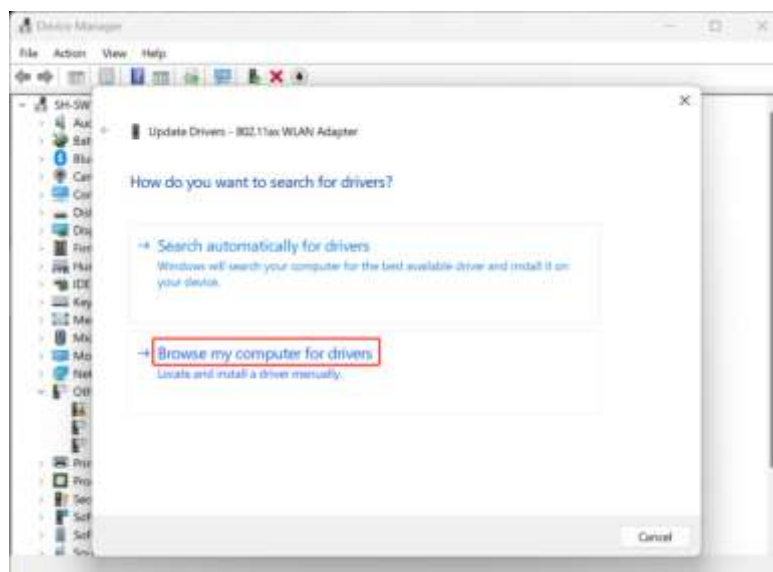


Figure 6: Choose to Install WLAN Driver Manually

Step 4: Select "Let me pick from a list of available drivers on my computer".

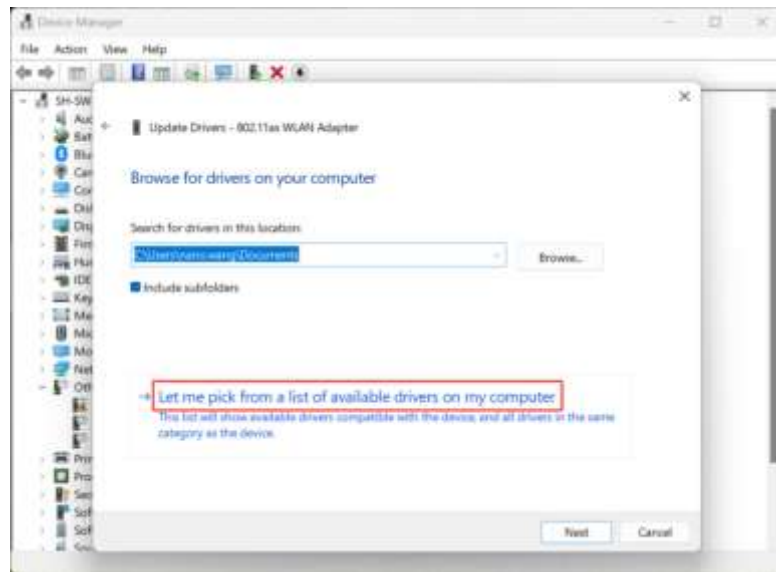


Figure 7: Display Driver List

Step 5: Select **"Show All Devices"** and click **"Next"**.

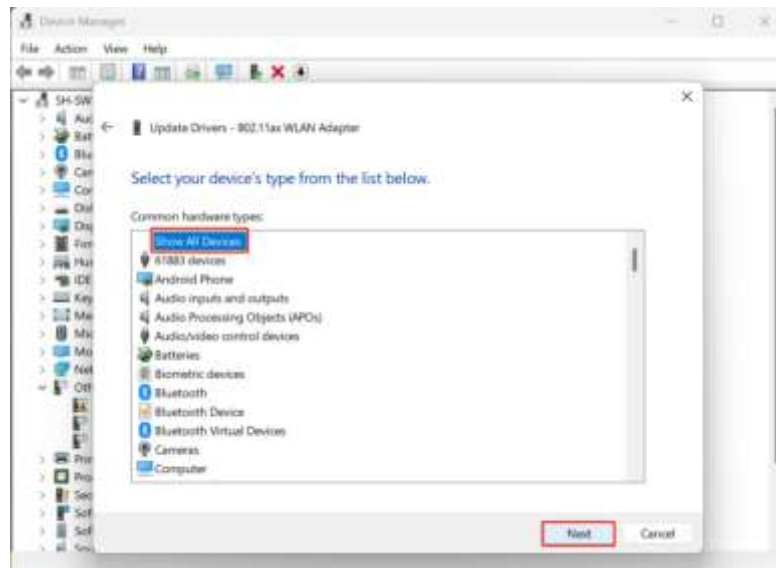


Figure 8: Select Device Type

Step 6: Click **"Have Disk..."** and **"Browse..."**.

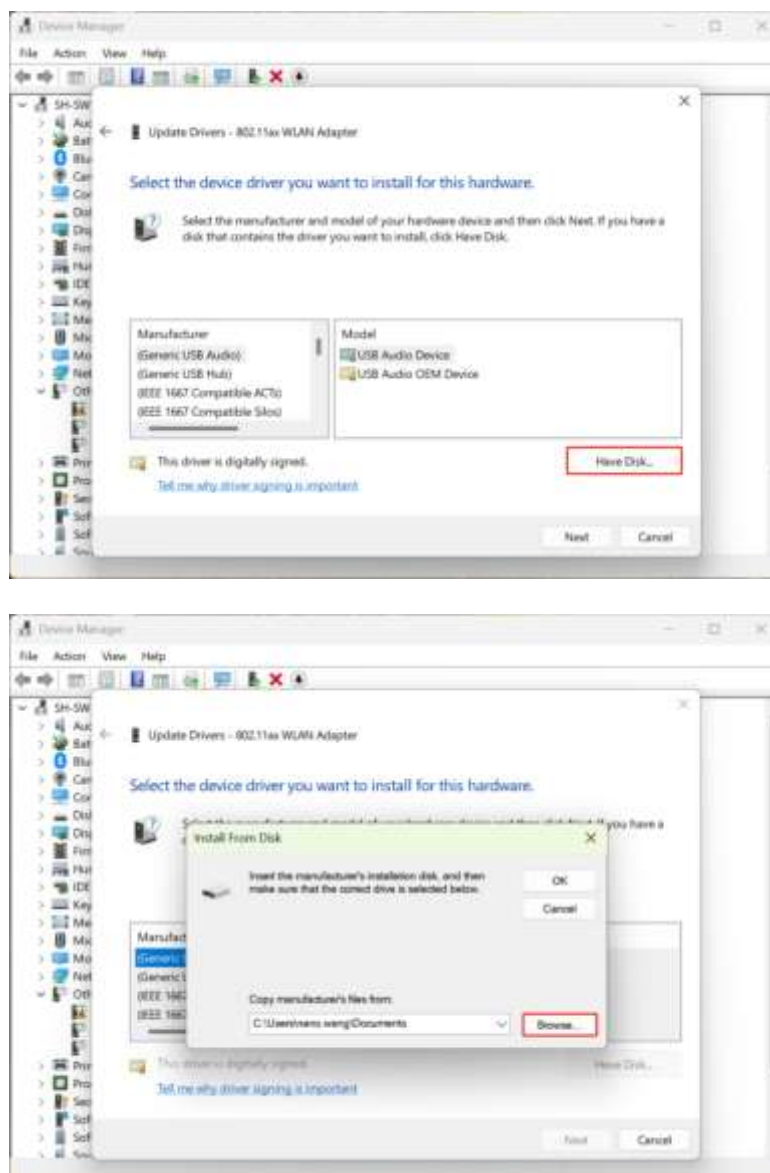


Figure 9: Jump to Driver Selection Pane

Step 7: Select WLAN INF file *netrtwlanuval.inf*. After selecting the INF file, click **"Open"** and **"OK"**.

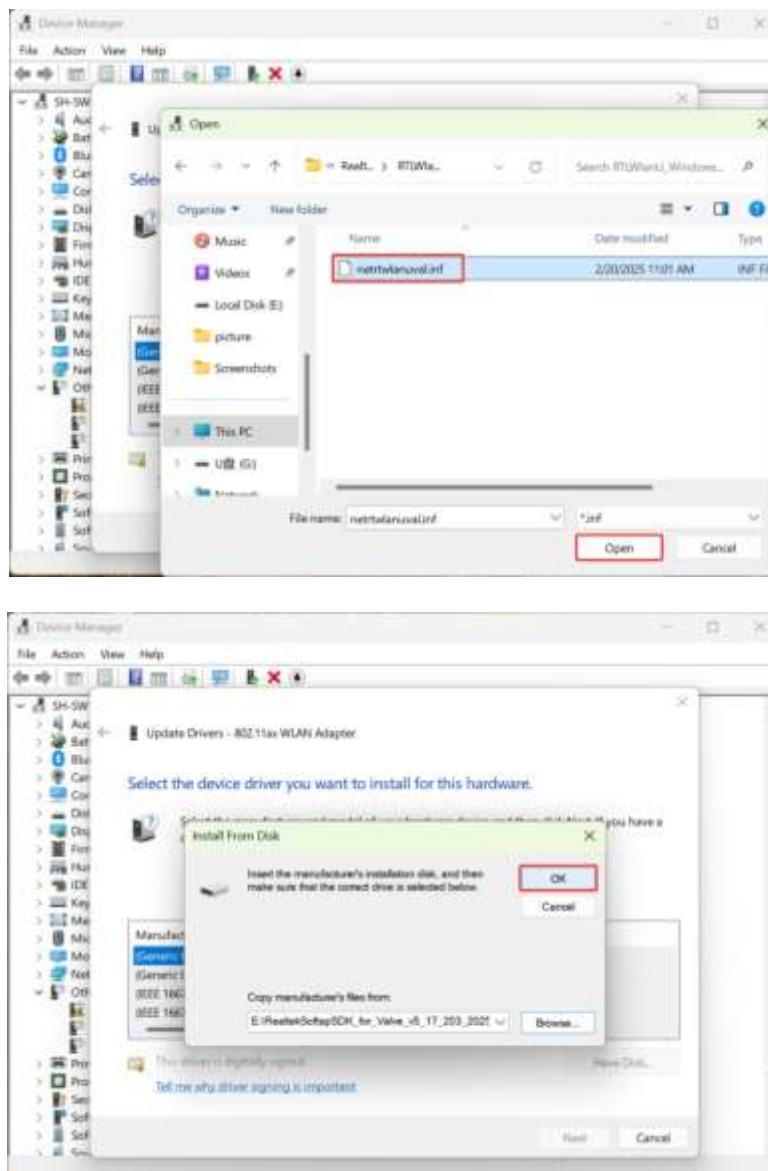


Figure 10: Select the WLAN Driver to Install

Step 8: Click **"Next"** to install the driver.

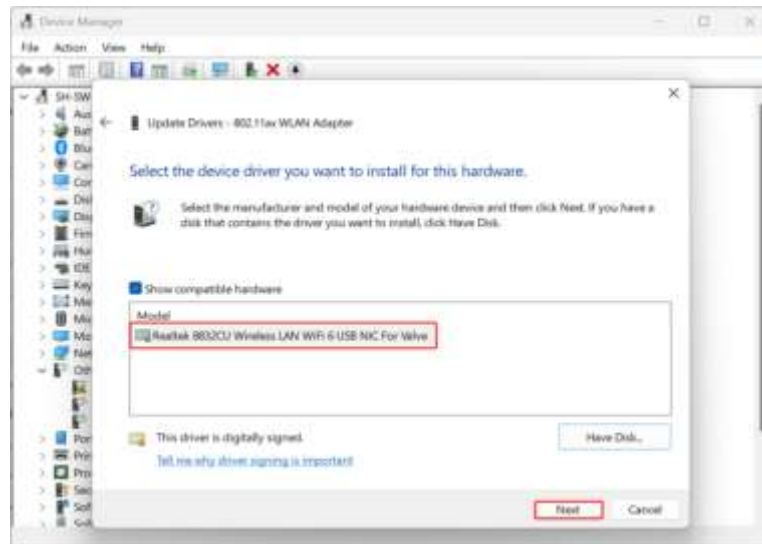


Figure 11: Confirm the Device and Ready to Install

Step 9: View the successful installation result.

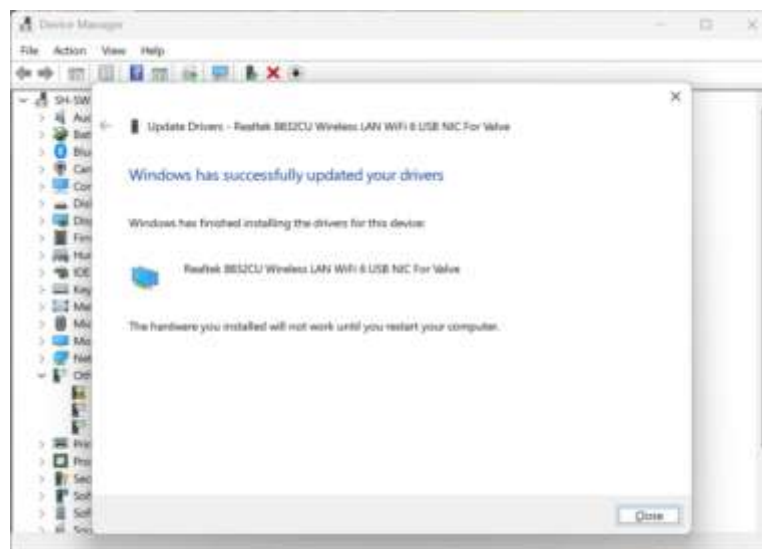


Figure 12: Install WLAN Driver Successfully

NOTE

Please contact Quectel Technical Support to get permission to access Quectel's git repository and obtain the installation driver for the SDC103A USB dongle.

3.2 Function Operation

The USB dongle enables network access by connecting to an AP. Windows 11 provides multiple connection methods to accomplish this:

- **Method One**

Step 1: Right click  and select **"Network Connections"** from the pop-up menu.

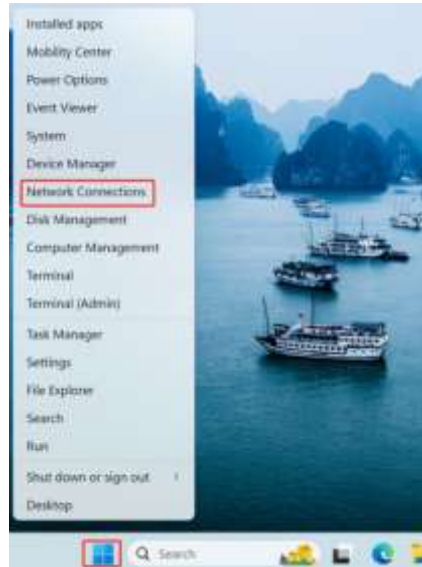


Figure 13: Open the "Network Connection" Pane

Step 2: Click the **"Wi-Fi"** network connection method.



Figure 14: All "Network connections" Support by the System

Step 3: Click **"Hardware properties"** to select Wi-Fi device (Optional).



Figure 15: List All Wi-Fi Devices' Information

Step 4: Select the used Wi-Fi device based on the **"Description"** (Optional).

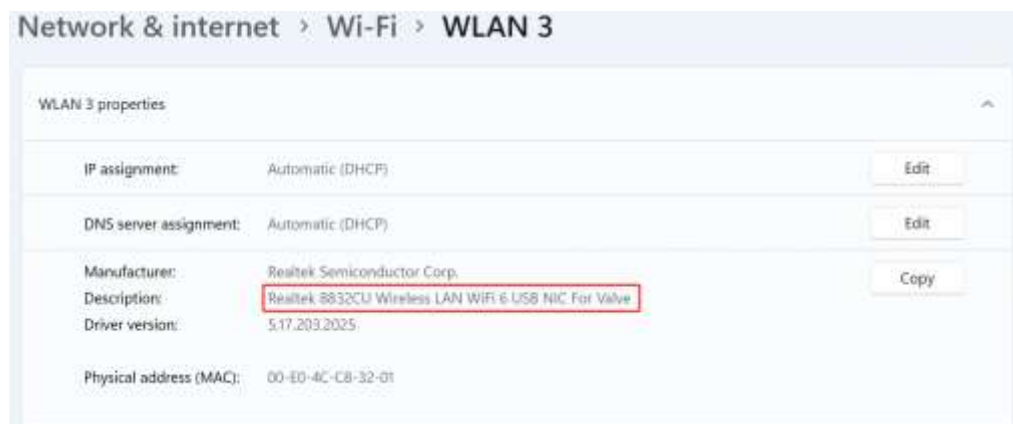


Figure 16: "Hardware Properties" of Wi-Fi Device

Step 5: Click **"Show available networks"** and select the AP you want to connect to, and click **"Connect"**.



Figure 17: Select the AP You Want to Connect to

NOTE

Step 3 and **Step 4** are optional, if there is only one Wi-Fi device in the system.

● **Method Two**

Step 1: Click  in the bottom right corner of the screen and click  on the right of  in the pop-up menu.

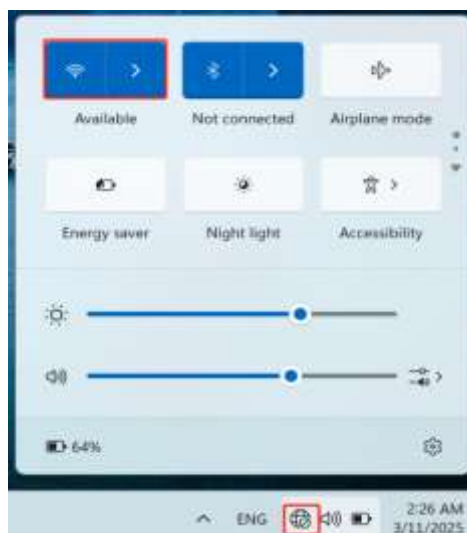


Figure 18: Choose Wi-Fi Network Connection

Step 2: Choose the Wi-Fi device, select the AP you want to connect to and click **"Connect"**.



Figure 19: Select Wi-Fi Device and Connect to the AP

4 Electrical Characteristics & Reliability

4.1 Absolute Maximum Ratings

Table 3: Absolute Maximum Ratings (Unit: V)

Parameter	Min.	Max.
VBAT	4	5.5

4.2 Power Supply Ratings

Table 4: Power Supply Ratings (Unit: V)

Parameter	Description	Conditions	Min.	Typ.	Max.
VBAT	Power supply for the product	The actual input voltages must be kept between the minimum and maximum values.	4.0	5.0	5.5

4.3 Wi-Fi Power Consumption

Table 5: Wi-Fi Power Consumption in Non-signalling Mode (Typ.; Unit: mA)

Condition			I _{VBAT}
2.4 GHz	802.11n	HT20 @ MCS 0	242.87
		HT20 @ MCS 7	135.70
		HT40 @ MCS 7	127.26
	802.11ax	HE20 @ MCS 0	236.76
		HE20 @ MCS 11	130.89
		HE40 @ MCS 11	127.33

5 GHz	802.11n	HT20 @ MCS 0	273.51
		HT20 @ MCS 7	145.47
		HT40 @ MCS 7	135.95
	802.11ac	VHT20 @ MCS 0	277.62
		VHT20 @ MCS 8	142.99
		VHT40 @ MCS 9	134.84
		VHT80 @ MCS 9	140.44
		VHT160 @ MCS 9	158.27
	802.11ax	HE20 @ MCS 0	261.24
		HE20 @ MCS 11	140.58
		HE40 @ MCS 11	136.84
		HE80 @ MCS 11	144.34
		HE160 @ MCS 11	163.64
6 GHz	802.11ax	HE20 @ MCS 0	251.40
		HE20 @ MCS 11	140.96
		HE40 @ MCS 11	136.14
		HE80 @ MCS 11	144.45
		HE160 @ MCS 11	163.34
2.4 GHz MIMO	802.11n	HT20 @ MCS 0	297.24
		HT20 @ MCS 7	158.96
		HT40 @ MCS 7	151.69
	802.11ax	HE20 @ MCS 0	292.53
		HE20 @ MCS 11	160.04
		HE40 @ MCS 11	159.47
5 GHz MIMO	802.11n	HT20 @ MCS 0	361.94

		HT20 @ MCS 7	178.65
		HT40 @ MCS 7	172.14
		VHT20 @ MCS 0	356.92
		VHT20 @ MCS 8	178.54
	802.11ac	VHT40 @ MCS 9	171.50
		VHT80 @ MCS 9	179.63
		VHT160 @ MCS 9	203.23
	802.11ax	HE20 @ MCS 0	337.84
		HE20 @ MCS 11	183.04
		HE40 @ MCS 11	182.91
		HE80 @ MCS 11	162.69
		HE160 @ MCS 11	216.56
6 GHz MIMO	802.11ax	HE20 @ MCS 0	325.74
		HE20 @ MCS 11	184.33
		HE40 @ MCS 11	182.52
		HE80 @ MCS 11	192.11
		HE160 @ MCS 11	216.06

5 Packaging

5.1 Packaging Specification

This chapter outlines the key packaging parameters and processes. All figures below are for reference purposes only, as the actual appearance and structure of packaging materials may vary in delivery.

The modules are packed in a blister tray packaging as specified in the sub-chapters below.

5.1.1 Blister Tray

Blister tray dimensions are illustrated in the following figure:

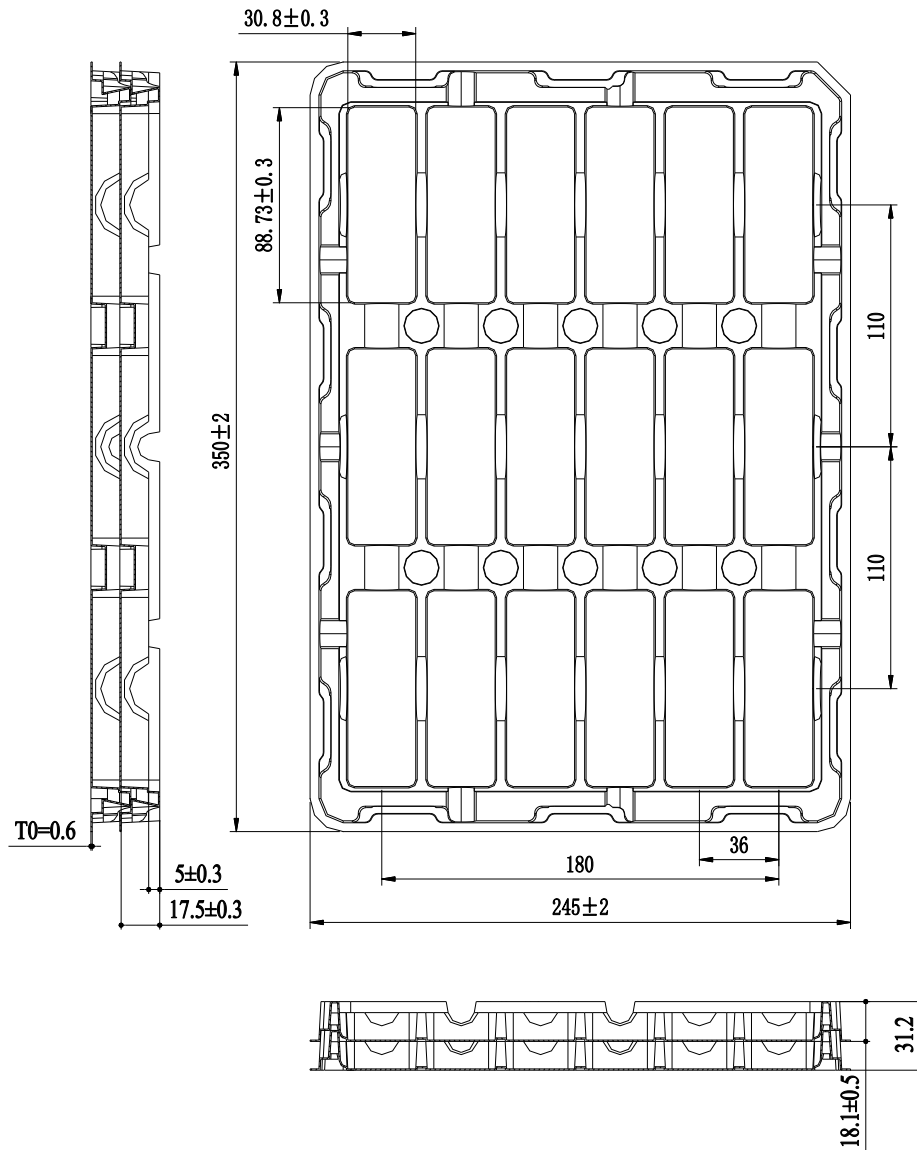
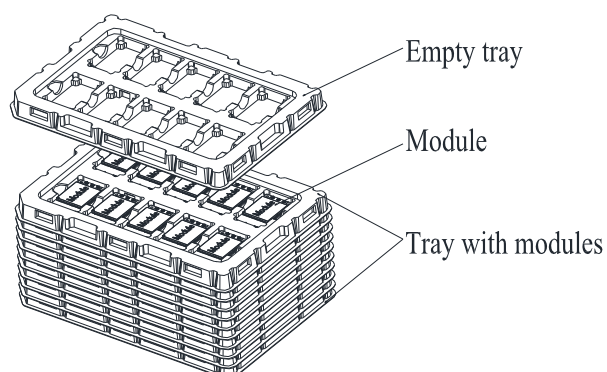


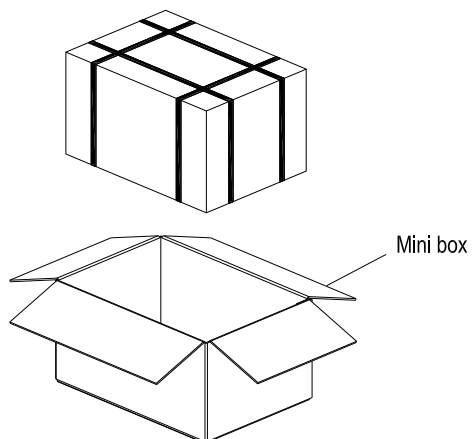
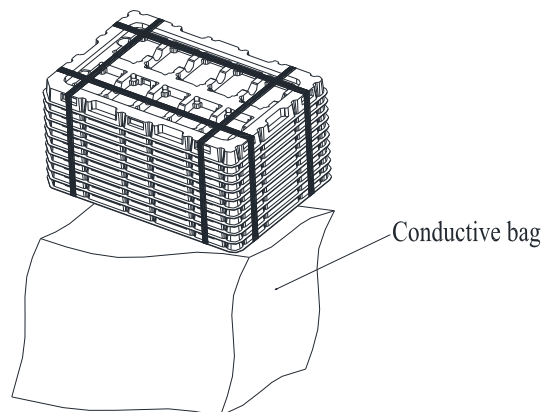
Figure 20: Blister Tray Dimension Drawing (Unit: mm)

5.1.2 Packaging Process



Each blister tray packs 18 modules. Stack 10 trays with modules, and place 1 empty tray on top.

Fasten the 11 trays and place them into a conductive bag and fasten it.



Pack the conductive bag with blister trays into a mini box. 1 mini box can pack 180 modules.

Figure 21: Packaging Process

6 Appendix References

Table 2: Terms and Abbreviations

Abbreviation	Description
AP	Access Point
CCK	Complementary Code Keying
EHT	Extremely High Throughput
ESD	Electrostatic Discharge
EVM	Error Vector Magnitude
GND	Ground
HE	High Efficiency
HT	High Throughput
I/O	Input/Output
IEEE	Institute of Electrical and Electronics Engineers
Mbps	Megabits per second
MCS	Modulation and Coding Scheme
PCB	Printed Circuit Board
QAM	Quadrature Amplitude Modulation
QPSK	Quadrature Phase Shift Keying
RF	Radio Frequency
RoHS	Restriction of Hazardous Substances
RTS	Request To Send
STA	Station
USB	Universal Serial Bus

VBAT	Voltage at Battery (Pin)
VHT	Very High Throughput
VSWR	Voltage Standing Wave Ratio
WPA	Wi-Fi Protected Access

Hereby, Quectel Wireless Solutions Co., Ltd. declares that the radio equipment type SDC103A is in compliance with Directive 2014/53/EU. This product can be used across EU member states. The full text of the EU declaration of conformity is available at the following internet address:

<http://www.quectel.com/support/technical.htm>

Disposal of old electrical appliances



The European directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), requires that old household electrical appliances must not be disposed of in the normal unsorted municipal waste stream. Old appliances must be collected separately in order to optimize the recovery and recycling of the materials they contain, and reduce the impact on human health and the environment.

The crossed out "wheeled bin" symbol on the product reminds you of your obligation, that when you dispose of the appliance, it must be separately collected.

Consumers should contact their local authority or retailer for information concerning the correct disposal of their old appliance.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body

The device is restricted to indoor use only when operating in the 5945 to 6425MHz (WIFI 6E LPI) frequency range.



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(NI)

5GHz band (W52,W53) and 6GHz band (LPI): Indoor use only (except communicate to W52 high power radio)

FCC Regulations:

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 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 radiated 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.

FCC Note:

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

Transmitters in the 5.925-7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

RF Exposure Information (SAR)

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage against the head with no separation, and near the body with the separation of 5 mm. To support body-worn operation, choose the belt clips or holsters, which do not contain metallic components, to maintain a separation of 5 mm between this device and your body.

The SAR limit set by the FCC is 1.6W/kg.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

IC Notice

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.

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

IC Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods. This equipment should be installed and operated with minimum distance 5 mm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cette EUT est conforme au das pour la population générale/limites d'exposition non contrôlée dans IC RSS-102 et a été testée conformément aux méthodes de mesure. Cet appareil doit être installé et utilisé avec une distance minimale de 5mm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

i: 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.

i: L'appareil pour fonctionner dans la bande 5150-5250 MHz est uniquement pour une utilisation à l'intérieur pour réduire le potentiel d'interférence nuisible aux systèmes satellites mobiles co-canaux.

Devices shall not be used for control of or communications with unmanned aircraft systems.

Devices shall not be used on oil platforms.

Les dispositifs ne doivent pas être utilisés pour le contrôle ou les communications avec les systèmes d'aéronef sans pilote.

Les dispositifs ne doivent pas être utilisés sur les plates-formes pétrolières.

Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).

Les dispositifs ne doivent pas être utilisés à bord des aéronefs, sauf pour les points d'accès intérieurs à faible puissance, les dispositifs subalternes intérieurs, les dispositifs clients à faible puissance et les dispositifs à très faible puissance fonctionnant dans la bande de 5925 à 6425 MHz, qui peuvent être utilisés sur les gros aéronefs au sens du règlement de l'aviation canadien, alors qu'ils volent à plus de 3048 mètres (10 000 pieds).

Devices shall not be used on automobiles.

Devices shall not be used on trains.

Devices shall not be used on maritime vessels.

Les dispositifs ne doivent pas être utilisés sur les automobiles.

Les dispositifs ne doivent pas être utilisés sur les trains.

Les dispositifs ne doivent pas être utilisés sur les navires maritimes.