

SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO.,LTD

Mobile Data Terminal

C66 User Manual



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Statement

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Chapter 1 Product intro

1.1 Intro

C66 is an industrial-grade smart handheld terminal that has been designed and manufactured by Shenzhen chainway information technology co, ltd .It is based on Android 7.1, which runs fast and has a long battery life. To meet the needs of multi-industry applications like logistics express, warehouse inventory, manufacturing, retail, etc., It can help customers to quickly access information and improve the efficiency of outbound storage inventory

1.2 Precaution before using battery

- Do not leave battery unused for long time, no matter it is in device or inventory. If battery has been used for 6 months already, it should be checked for charging function or it should be disposed correctly.
- The lifespan of Li-ion battery is around 2 to 3 years, it can be circularly charged for 300 to 500 times. (One full battery charge period means completely charged and completely discharged.)
- When Li-ion battery is not in use, it will continue to discharge slowly. Therefore, battery charging status should be checked frequently and take reference of the related battery charging information on the manuals.
- Observe and record the information of a new unused and non-fully charged battery. On the basis of operating time of new battery and compare with a battery that has been used for long time. According to product configuration and application program, the operating time of battery would be different.
- Check battery charging status at regular intervals.
- When battery operating time drops below about 80%, charging time will be increased remarkably.
- If a battery is stored or otherwise unused for an extended period, be sure to follow the storage instructions in this document. If you do not follow the instructions, and the battery has no charge remaining when you check it, consider it to be damaged. Do not attempt to recharge it or to use it. Replace it with a new battery.
- Store the battery at temperatures between 5 °C and 20 °C (41 °F and 68 °F).

1.3 Charger

The charger type is GME10D-050200FGu, output voltage/current is 5V DC/2A. The plug considered as disconnect device of adapter.

1.4 Notes

Note:

Using the incorrect type battery has danger of explosion.
Please dispose the used battery according to instructions.

Note:

Due to the used enclosure material, the product shall only be connected to a USBInterface of version 2.0 or higher. Theconnection to so called power USB is prohibited.

Note:

The adapter shall be installed near the equipment and shallbeeasily accessible.

Note:

The suitable temperature for the product and accessories is 0-10°C to 50°C.

Note:

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIESACCORDING TO THE INSTRUCTIONS.

Chapter 2 Installation instructions

2.1 Appearance

C66 back and front appearances are showing as follows:

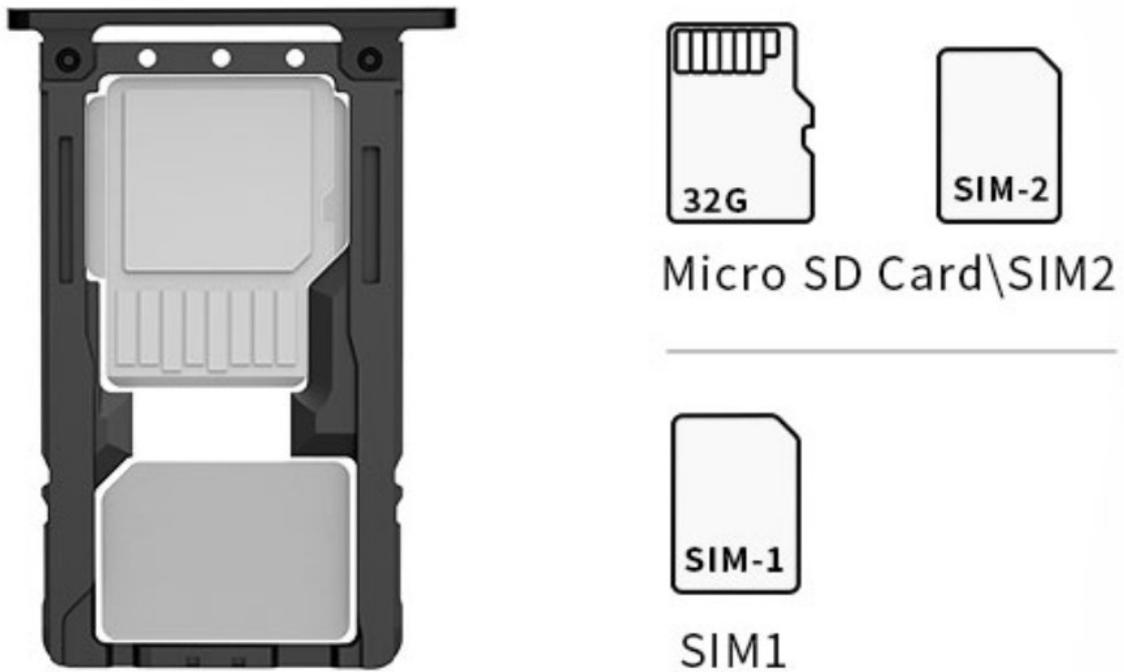


Buttons instruction

Button		Description
Side button	1.Power	Located on right side, press to ON/OFF device.
	2. PTT key	Located on right side, its function can be defined by software.
	3.SCAN	Scanning button located on both sides. There are two scanning buttons.
	4. Volume +/-	Volume up and down

2.2 Install Micro SD and SIM cards

The cards sockets are showing as follows:



2.3 Battery charge

By using USB Type-C contact, the original adaptor should be used for charging the device. Make sure not to use other adaptors to charge the device.

2.4 Buttons and function area display

C66 has 6 side buttons, NFC identification area and 2D scanning module locates on the top. HD camera and flashlight locate at rear.



Chapter 3 Call function

3.1 Calling numbers

1. Click icon .
2. Click number key to input phone numbers.
3. Click icon  to call.
4. Click icon  to end call.

3.2 Contacts

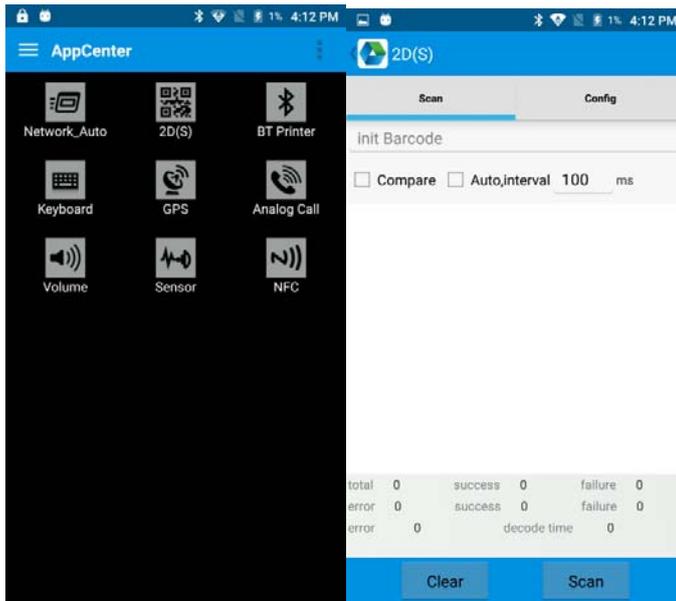
1. Click contacts to open contacts list.
2. Click icon  to add new contacts.
3. Click icon  to import/export contacts.

3.3 SMS and MMS

1. Click  to open message window.
2. Click  to input message receiver and contents.
3. Click  to send out messages.
4. Click  to add attachment pictures and videos.

Chapter 4 Barcode reader-writer

1. In App Center, to open 2D barcode scan test.
2. Press "SCAN" button or click scan key to start scanning, the parameter "Auto interval" can be adjusted.



 Caution: Please scan codes in correct way otherwise the scanning will be failed.

2D code:



Correct



Incorrect



Max. radiant power: 0.6mW

Wave length: 655nm

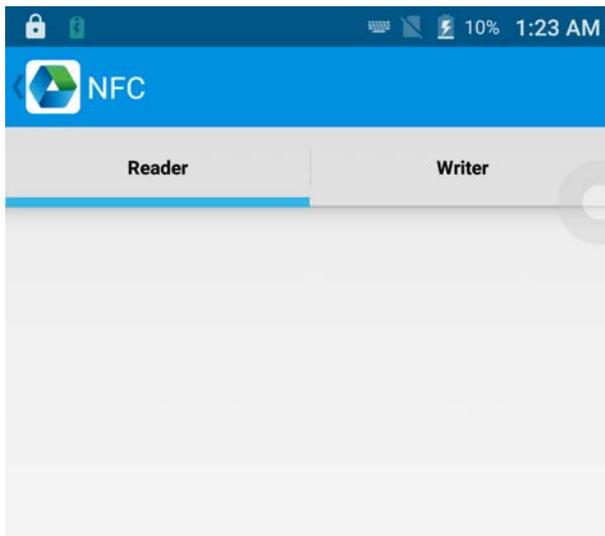
IEC 60825-1 (Ed.2.0).

21CFR 1040.10 and 1040.11 standard.

Chapter 5 RFID reader

5.1 NFC

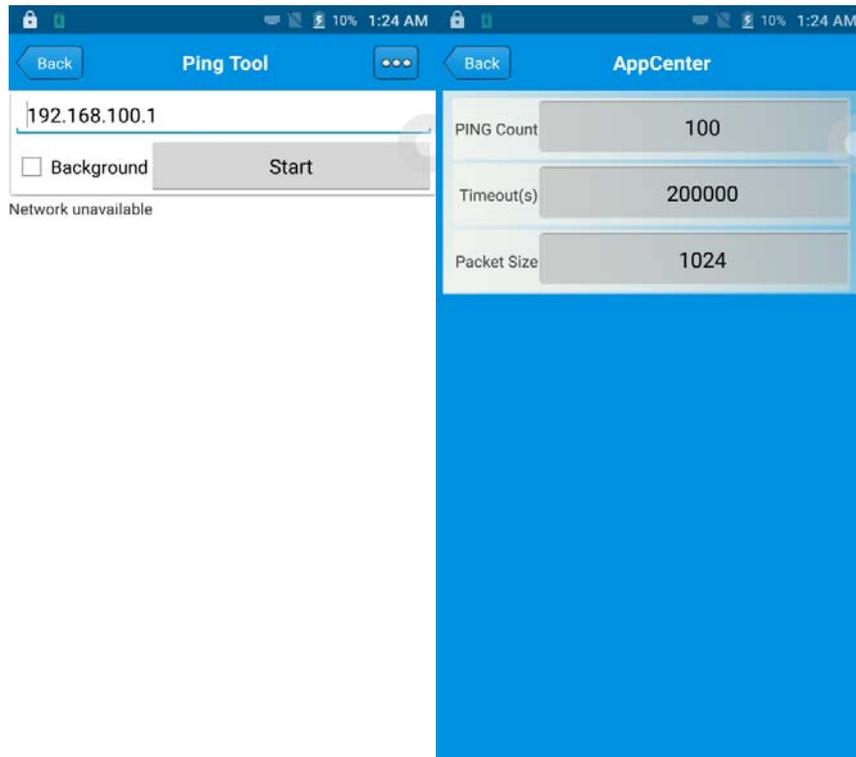
Click App Center, open “NFC” to read and write tag information.



Chapter 6 Other functions

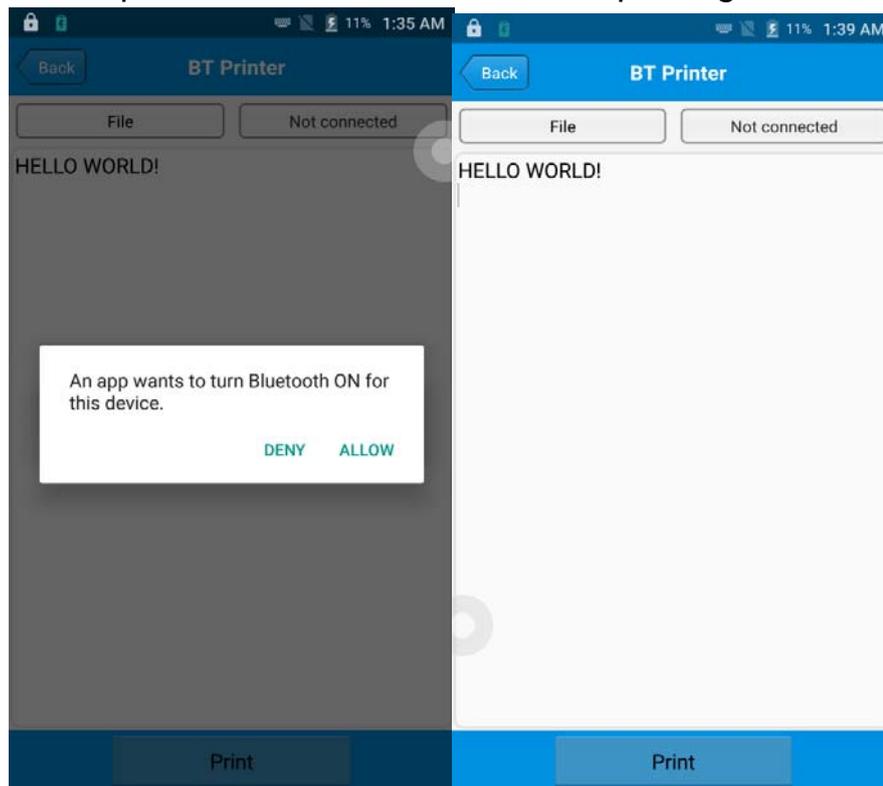
6.1 PING tool

1. Open “PING” in App Center.
2. Setup PING parameter and select external/internal address.



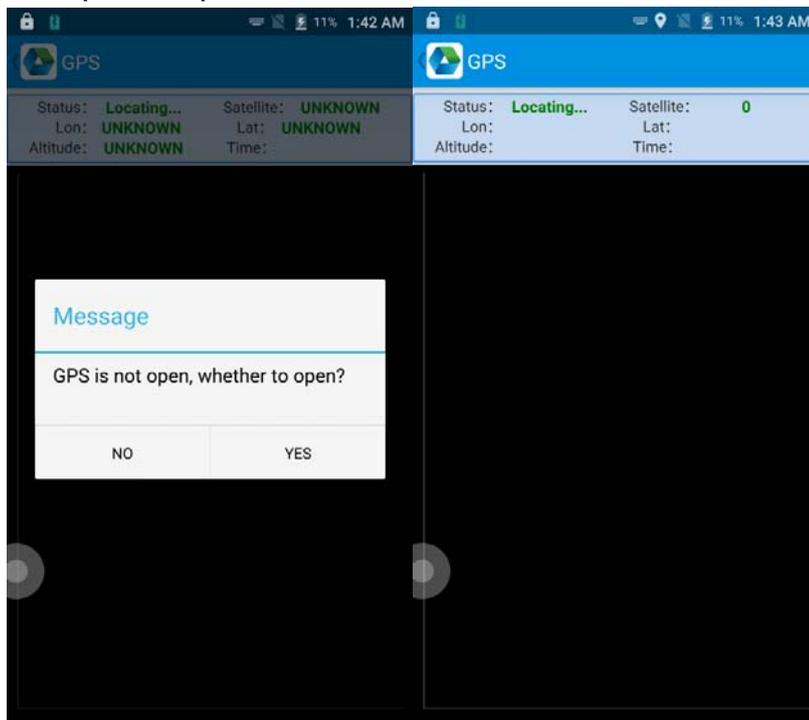
6.2 Bluetooth

1. Open “BT Printer” in App Center.
2. In the list of detected devices, click the device that you want to pair.
3. Select printer and click “Print” to start printing contents.



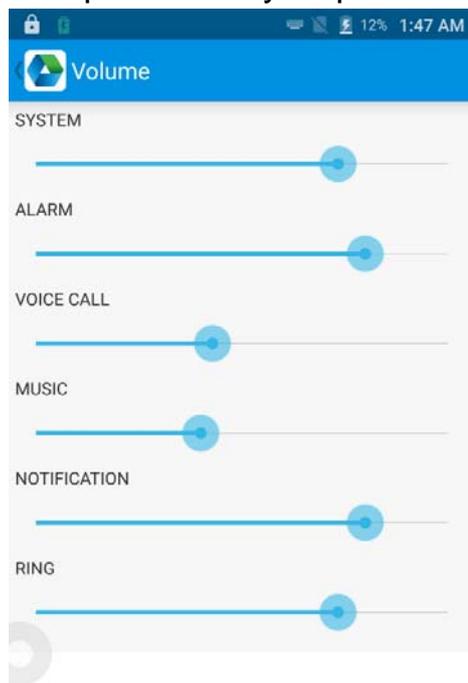
6.3 GPS

1. Click “GPS” in App Center to open GPS test.
2. Setup GPS parameters to access GPS information.



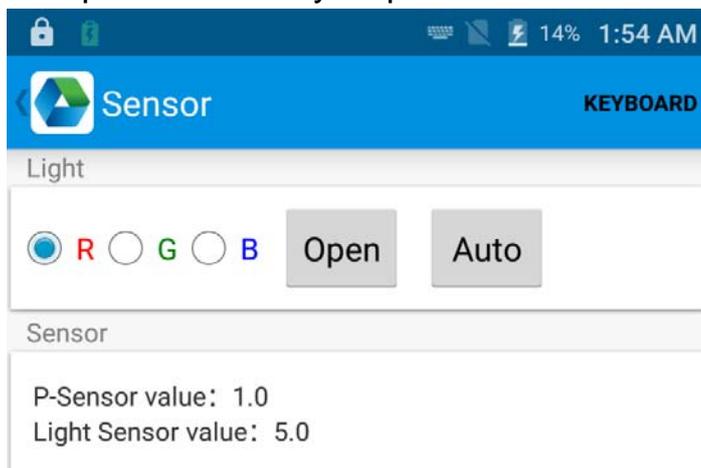
6.4 Volume setup

1. Click “Volume” in App Center.
2. Setup volume by requirements.



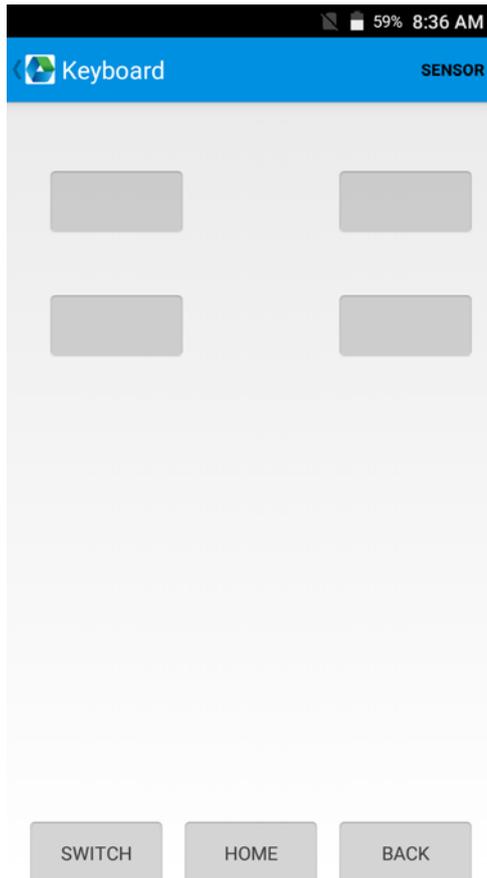
6.5 Sensor

1. Click “Sensor” in App Center.
2. Setup the sensor by requirements.



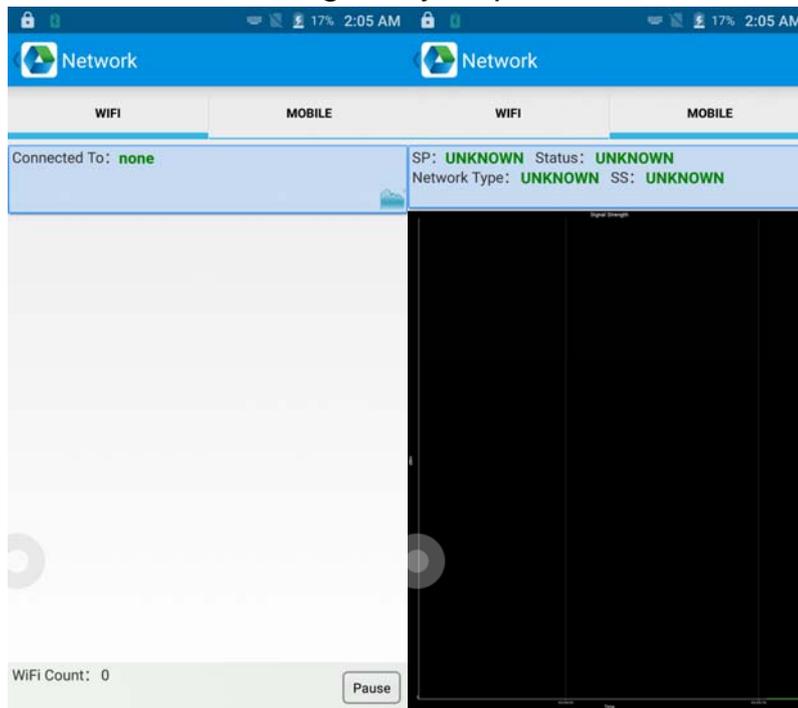
6.6 Keyboard

1. Click “Keyboard” in App Center.
2. Setup and test the main value of the device.



6.7 Network

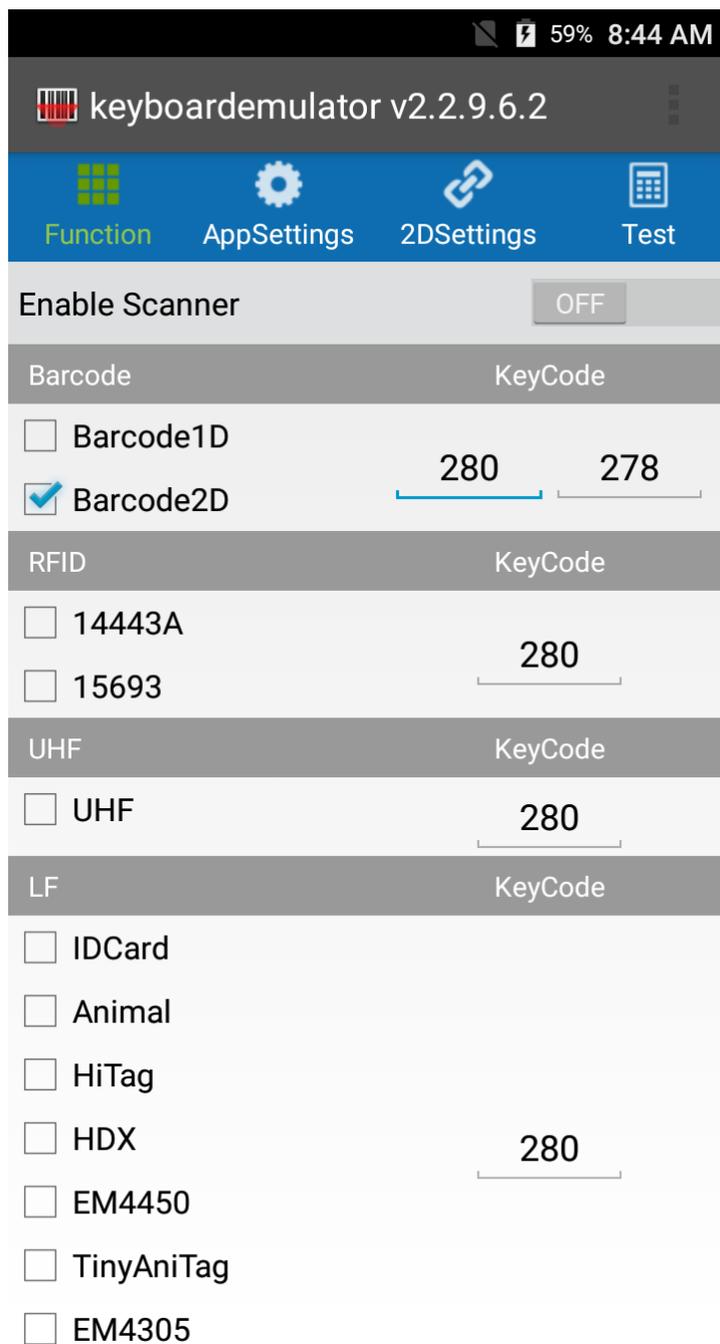
1. Click “Network” in App Center.
2. Test WIFI/Mobile signal by requirements.



6.8 Keyboard emulator

The keyboard emulator can be used in multiple operating background and output formats directly. And it includes Prefix/Suffix/Enter/TAB.

Please check Keyboard emulator manual for more details.



Chapter 7 Device characteristic

Physical characteristics

Size	160x76x15.5mm / 6.3*2.99*0.61in
Weight	<260g/9.17oz
Display	5.45-inch display, IPS LTPS 1280*720
Touch panel	1 power key, 2 scan keys, 2 volume keys, 1 PTT key
Battery	4300mAh removable battery , support QC3.0
Expansion	Supports up to 128 GB Micro SD card
Expansion Slot	1 slot for SIM card, 1 slot for TF card
Audio	speaker, 2 microphones
Camera	13MP autofocus camera with flashlight

Performance

CPU	Qualcomm 2.0GHz Octa-core
OS	Android 7.1
RAM	2GB+16GB / 3GB+32GB
Communication Interface	USB2.0,Type-C,OTG
ROM	16GB/32GB
Max.expansion	Supports up to 128 GB Micro SD card

User environment

Operating temp.	-20°C to 50°C
Storage Temp.	-20°C to 70°C
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	n Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range

Communication

WAN	EU: 2G: 900/1800 MHz WCDMA: 900/2100MHz 4G: B1, B3, B5, B7, B8, B20, B38, B40, US: 2G: 850/1900MHz / CDMA EVDO: BC0 3G: 850/1900/MHz 4G: B2, B4, B5, B7, B17
WLAN	Support 802.11 a/b/g/n/ac
WPAN	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR

Data collection

Barcode scanning	SE4710
RFID	NFC 13.56Mhz

Developing Environment

SDK	Chainway software develop kit
Language	Java
Develop	Eclipse/Android Studio

Appendix

Restrictions:

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

This device is restricted to indoor use where operated in the European Community using frequency in 5150MHz-5350MHz to reduce the potential for interference.

Simplified EU declaration of conformity

Hereby, ShenZhen Chainway Information Technology Co., Ltd declares that the radio equipment type C66 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:www.chainway.net

Signature:

Zi Wenzhan

CE Statement

Herby, Shenzhen Chainway Information Technology Co., Ltd. declares that this Mobile Data Terminal, C66 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

In accordance with Article 10(2) and Article 10(10), this product allowed to be used in all EU member states.

Use the Mobile Data Terminal in the environment with the temperature between -10°C and 25°C

Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss.



Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

The product shall only be connected to a USB interface of version USB2.0

SAR: The device complies with RF specifications when the device used at 5mm from your body.

Adapter shall be installed near the equipment and shall be easily accessible.

The plug considered as disconnect device of adapter

Adapter Model: DBS15Q

Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V, 3A / 9V, 2A / 12V, 1.5A

Operation Frequency:

For WIFI:

2412MHz~2472MHz (802.11b/802.11g/802.11n(HT20))

2422MHz~2462MHz (802.11n(HT40))

For BT/BLE: 2402MHz~2480MHz

For GPS: 1.57542GHz

For GSM:

E-GSM900/GPRS900/EGPRS900:

TX: 880MHz~915MHz; RX: 925MHz~960MHz

GSM1800/GPRS1800/EGPRS1800:

TX: 1710MHz~1785MHz; RX: 1805MHz~1880MHz

For WCDMA:

UTRA Band I: TX:1920MHz~1980MHz;

RX: 2110MHz -2170MHz

UTRA Band VIII: TX: 880MHz~915MHz;

RX: 925MHz -960MHz

LTE Band 1: (UL)1920MHz~1980MHz,

(DL)2110MHz~2170MHz

LTE Band 3: (UL)1710MHz~1785MHz,

(DL)1805MHz~1880MHz

LTE Band 7: (UL)2500MHz~2570MHz,

(DL)2620MHz~2690MHz

LTE Band 8: (UL)880MHz~915MHz,

(DL)925MHz~960MHz

LTE Band 20: (UL)832MHz~862MHz,

(DL)791MHz~821MHz

LTE Band 38: (UL)2570MHz~2620MHz,

(DL)2570MHz~2620MHz

LTE Band 40: (UL)2300MHz~2400MHz,

(DL)2300MHz~2400MHz

For 5G WIFI:

5150MHz-5350MHz, 5470MHz-5725MHz, 5725MHz-5850MHz

Max output power:

2.4G WIFI: 0.0603W BT: 0.0053W BLE: 0.0013W

5G WIFI: 0.0263W

E-GSM900/GPRS900/EGPRS900: 2.5119W

GSM1800/GPRS1800/EGPRS1800: 1.2589W

UTRA Band I: 0.2541W UTRA Band VIII: 0.2742W

LTE Band 1: 0.2642W LTE Band 3: 0.2761W

LTE Band 7: 0.2265W LTE Band 8: 0.3491W

LTE Band 20: 0.2799W LTE Band 38: 0.2529W

LTE Band 40: 0.3524W

Manufacturer: Shenzhen Chainway Information Technology Co., Ltd.

Address: 9/F, Building 2, Daqian Industrial Park, Longchang Rd.,
District 67, Bao'an, Shenzhen, China

Tel: +86 755 23223301

Fax: +86 755 23223310

E-mail: liwenzhang@chainway.cn

FCC Statement

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

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.

SAR Information Statement

Your Mobile Data Terminal is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the

phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.42 W/Kg and when worn on the body, as described in this user guide, is 0.78 W/Kg (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). The maximum scaled SAR in hotspot mode is 0.77 W/Kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on.

FCC ID: 2AC6AC66A Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>. * In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

The SAR test distance is 10mm.

DECLARATION OF CONFORMITY

I hereby declare that the product

Product:

Product Name: Mobile Data Terminal

Model: C66

Brand Name: **CHAINWAY**[®]

Hardware Version: C66_MB_B

Software Version: C66_CNCommon_V1.00

Accessories:

Adapter Information:

Model: DBS15Q

Input: AC 100-240V, 50/60Hz, 0.5A

Output: DC 5V, 3A / 9V, 2A / 12V, 1.5A

Manufacturer: SHENZHEN SHI YING YUAN ELECTRONICS CO LTD

USB Cable Information:

Model: type-C/USB-A

Length: 1M

Manufacturer: Shenzhen Huanjian Electronics Co., Ltd.

Battery information:

Model: J295

Specification: 3.8V, 4300mAh, 16.34Wh

Manufacturer: Hixon (Shenzhen) Technology Limited

(Name of product, type or model, batch or serial number)

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2014/53/EU, 2014/35/EU and 2014/30/EU:and declare that the same application has not been lodged with any other notified body.

EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013

EN 62479:2010

EN 62209-1:2016

EN 62209-2:2010

EN 50360:2017

EN 50566:2017

Draft ETSI EN 301 489-52 V1.1.0 (2016-11)

ETSI EN 301 489-19 V2.1.1 (2019-04)

Draft ETSI EN 301 489-17 V3.2.0 (2017-03)

Final draft ETSI EN 301 489-3 V2.1.1 (2017-03)

Draft ETSI EN 301 489-1 V2.2.1 (2019-03)

EN 55032: 2015

EN 61000-3-2: 2014

EN 61000-3-3: 2013

EN 55035: 2017

ETSI EN 300 328 V2.2.2 (2019-07)

ETSI EN 303 413 V1.1.1 (2017-06)

ETSI EN 301 511 V12.5.1 (2017-03)

Draft ETSI EN 301 908-1 V11.1.7 (2018-12)

ETSI EN 301 908-2 V11.1.2 (2017-08)

ETSI EN 301 908-13 V11.1.2 (2017-07)

ETSI EN 301 893 V2.1.1 (2017-05)

ETSI EN 300 440 V2.2.1 (2018-07)

ETSI EN 300 330 V2.1.1 (2017-02)

(Title(s) of regulations, standards, etc.)

All essential radio test suites have been carried out.

NOTIFIED BODY: MiCOM Labs Inc

– **Address:**

575 Boulder Court,

Pleasanton, California 94566

USA

Identification Number: 2280

MANUFACTURER or AUTHORISED REPRESENTATIVE:

– **Address:**

Shenzhen Chainway Information Technology Co., Ltd.

9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an,
Shenzhen, China

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorised representative.

Point of contact:

Li Wenzhang, +86 755 23223301 / +86 755 23223310

(Name, telephone and fax number)

2019-09-30

(Place, date of issue)



(Signature)

Li Wenzhang, Manager

(Name and title in block letters)