

# 安卓多功能智能终端使用说明书

Android Multi-function Intelligent Terminal User Manual



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## Preface

I express sincere thanks to you for using T508A(Q) series of Android multifunctional intelligent terminal products developed by our company!

As the intelligent terminal device to support Android system, T508A(Q) series of Android multifunctional intelligent terminal products is a kind of intelligent terminal device to integrate such functions as various Module (magnetic card reader, contact-type IC card reader, contactless IC card reader and PSAM card, 5-megapixel camera, fingerprint encryption, 58mm thermal printing technology (80mm thermal printing technology), customer display, standby battery and transmission technology (LAN network, GPRS or WCDMA or CDMA2000).

As this manual makes detailed descriptions about such contents in T508A(Q) series of Android multifunctional intelligent terminal products as various functional characteristics, operation methods, precautions for use and product maintenance, please carefully read through this handbook before using this product, so as to ensure your proper usage and high work efficiency; in the meanwhile, please pay attention to properly keeping this manual for future consultation and reference.

Suitable models for this manual: T508A(Q) series of products (T508A(Q)、T508B(Q)、E308(Q))

To dear users:

If you happen to have any question or good opinions and suggestions in the process of using our product, please make feedback about them to our company. Thanks very much for that kindness!

## Safety precautions

Firstly, thank you very much for using T508A(Q) serials of products. Before using this product for the first time, please carefully read the following safety precautions:



This symbol signifies that: if users neglect the specified requirements or use this product improperly, there is a danger for causing fatal death or severe damage.



This symbol signifies that: if users neglect the specified requirements or use this product improperly, there is a possibility for causing fatal death or severe damage.



This symbol signifies that: if users neglect the specified requirements or use this product improperly, there is a possibility for causing personal injuries or property losses.



### Lithium ion battery

- (1) Be sure not to get this battery wet for water can possibly engender the danger of battery releasing heat, exploding and catching fire;
- (2) Be sure not to use or place this battery near open fire or close to other places exposed to high temperature;
- (3) Be sure not to use the battery for other devices except this one; otherwise, this may engender the danger of battery releasing heat, exploding and catching fire;
- (4) Be sure not to misplace the positive (+) and negative (-) electrode of battery when putting it into equipment or charging it; otherwise, this may engender the danger of battery releasing heat, exploding and catching fire;
- (5) Be sure not to make incineration disposal towards used batteries or heat them up; otherwise, this may engender the danger of battery releasing heat, exploding and catching fire;
- (6) Be sure not to connect the positive and negative poles of battery together inside the recharger or instrument;
- (7) Be sure not to transport or store the battery with such articles as hairpin and necklace; otherwise, this may cause short circuit between positive and negative poles of battery, hence engendering the danger of battery releasing heat, exploding and catching fire. When transporting and storing it, please put the battery into a box.
- (8) Be sure not to beat, strike or to pierce the battery with nails or other edged tools; otherwise, this may engender the danger of battery releasing heat, exploding and catching fire;
- (9) Be sure not to disassemble and directly weld the battery or refit it by any means; otherwise, this may engender the danger of battery releasing heat, exploding and catching fire;
- (10) This battery can only be charged with the specified recharger; if other rechargers are used, it may engender the danger of battery releasing heat, exploding and catching fire;



#### Dismounting and refitting

(1) Be sure not to attempt to dismount or refit the battery by any means for the high voltage inside it may cause battery short circuit or damage;

#### Internal components and parts

(1) Be sure not to touch internal high-voltage components or parts; otherwise this may cause short circuit or damage the machine;

#### Abnormal conditions

(1) If the desktop payment terminal emits heat or begins to smoke with peculiar smell; then users should instantly turn the power off and contact with the dealer as soon as possible. If continuing to use it, users will possibly face the hazard of catching fire or electric shock.

#### Foreign matters

(1) If foreign matters enter the desktop payment terminal, users should instantly turn the power supply off and contact with the dealer as soon as possible. If continuing to use it, users will possibly face the hazard of catching fire or electric shock.

#### Dropout and damage

(1) If the desktop payment terminal suffers dropout or damage, users should instantly turn off the power and contact with the dealer as soon as possible. If continuing to use it, users will possibly face the hazard of catching fire or electric shock.

#### Humidity

(1) The desktop payment terminal should be kept far from vase, flowerpot, tea china, glass and other water containers as well as metal for it may cause the hazard of catching fire or electric shock if water and metal enter this payment terminal.

#### Lithium ion battery

(1) Be sure not to put the battery in microwave oven or pressure cookers; otherwise, this may cause battery to release heat, explode or burn;

(2) Be sure not to use batteries with peculiar smell, overheating temperature, abnormal colors or shapes; otherwise, this may cause the battery to release heat, explode or burn;

(3) After normal charging, the battery can only be used for a short time and at that time please instantly stop using it. If users continue to charge it when abnormality happens, the battery may explode or burn;

(4) If the battery leaks liquid or engenders peculiar smell, users should instantly remove it from neighboring heat source or fire source for high heat can cause battery to explode or burn;

(5) If the liquid exuding from the battery accidentally enters eyes, there is a danger for blindness; at that time, users should not rub the eyes; instead, they should instantly washing them with clean tap water before seeing doctors.



#### Foreign matters

(1) Pay attention to guaranteeing that there are no metal or inflammable particles entering the opening of desktop payment terminal for these foreign matters may cause the hazard of catching fire or electric shock;

#### Location

(1) Be sure not to put the desktop payment terminal on unstable or uneven surface; otherwise, this may engender the danger of falling off, thus causing casualties;

(2) Be sure not to put it in places with huge humidity and much dust;

(3) Be sure not to place it inside the automobile under direct sunlight for a long time.

#### Liquid crystal display/displayer (LCD)

(1) Be sure not to impose too much pressure on LCD or make it suffer powerful impact; otherwise, it may make LCD splinter, hence causing injuries;

(2) If LCD splinters, be sure not to touch the liquid inside; otherwise, this may cause skin irritation or cause inflammation.

If the liquid from LCD panel accidentally enters the mouth, users should immediately rinse it and then see doctors;

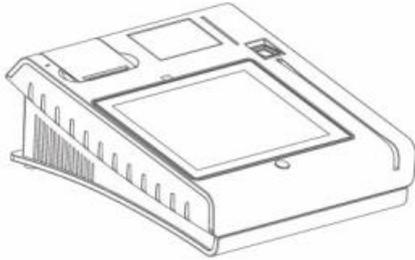
If the liquid accidentally rubs off on eyes or skin, please instantly wash the part with clean tap water for 15 minutes before seeing doctors.

<Caution>: in terms of those people who don't follow the above suggestions or improperly use the desktop payment terminal and in light of any consequences caused by ineligible maintenance personnel or by those people who use repairable parts not provided and specified by this company for maintenance, the company is not legally duty-bound to undertake any responsibility.

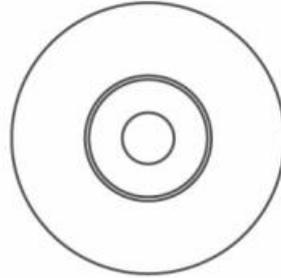
※If there are any changes in manual content, there are no prior notices.※

## Chapter I Unpacking list

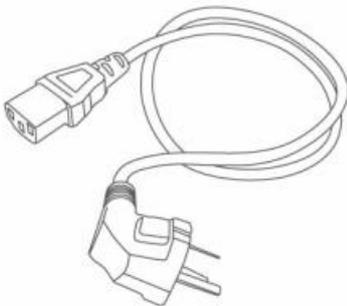
When unpacking the packaging box, please check and affirm whether the following parts are complete. If there are missing or damaged parts, please contact with the supplier.



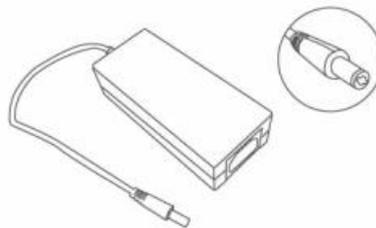
One main device



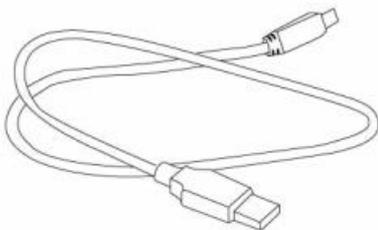
One disc



One power cable (Chinese standard/  
European standard/American standard)



One DC12V adapter(T508B DC24V)

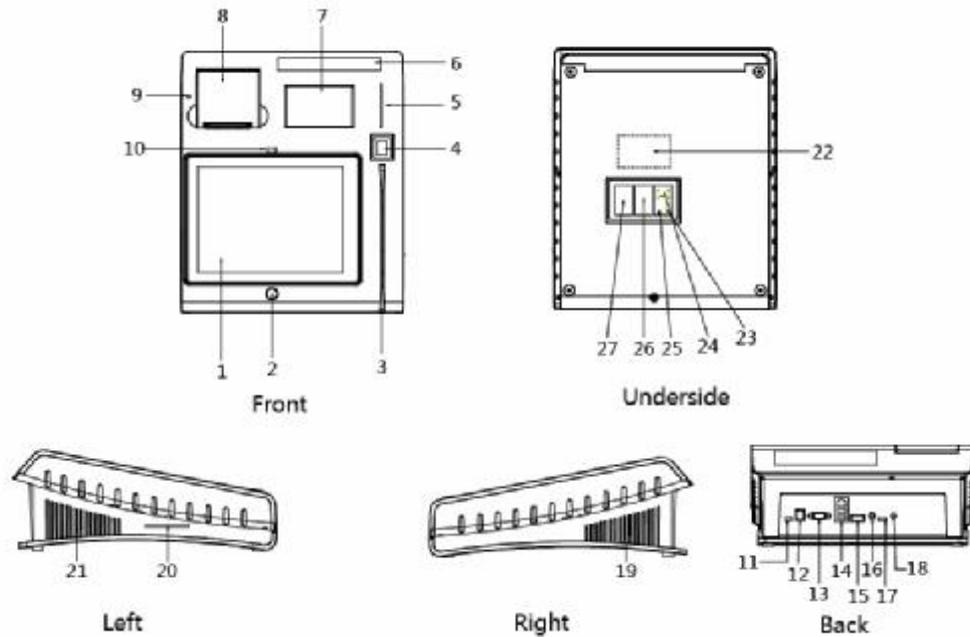


One Mini USB data cable



One thermal paper

## Chapter II Names of each product part



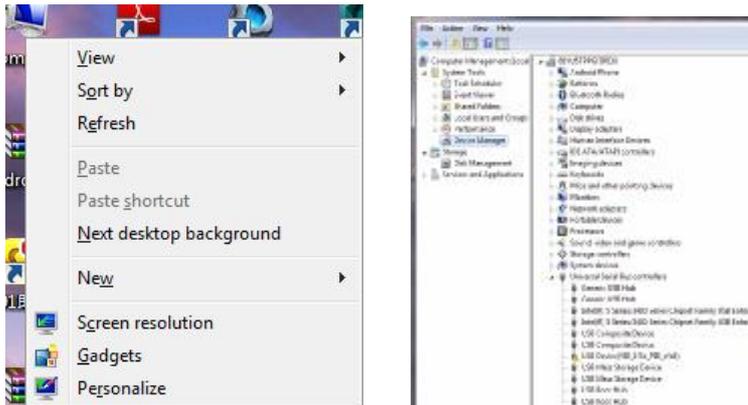
1. LCD	9.7-inch IPS LCD (capacitive touch screen);
2. Switch button	Switch button(and HOME);
3. MSR	to support high and low resistance cards; 1 track,2 track,3 track magnetic card;
4. Fingerprint identification	optical fingerprint identification module;
5. The contactless IC card	The contactless IC card module (T508A(Q));
6. LED client display	10 yellow green LED digital tube client display;
7. NFC card reader	support ISO14443A/B,ISO15693,Mifare,Sony Felica non-contact IC card protocol;
8. Printer	58mm thermal printer(T508B(Q) 80mm thermal printer);
8. Earphone and microphone sockets	earphone and microphone sockets;
9. Indicator light	print indicator light;
10. Camera	5 megapixel camera;
11. MINI USB	MINI USB interface;
12. Cashbox interface	RJ11 interface;
13. RS232 interface	DB9 interface;
14. Double USB+LAN interface	Double USB+LAN interface;
15. USB interface	USB interface;
16. Audio interface	Audio interface;
17. HDMI High-definition interface	HDMI High-definition interface;
18. DC power interface	12V/5A DC power interface (T508B(Q) 24V/2A);
19. Right loudspeaker	The 8 European 1W horn;
20. POS IC card reader	Financial certification of IC card reader;
21. Left loudspeaker	The 8 European 1W horn;
22. Label	Label and packaging sticker;
23. BOOT key	Upgrade switch;
24. The upgrade program interface	MSR、 PRINT upgrade program interface;
25. TF card slot	TF card slot, with the maximum capacity to support 32GB TF card;
26. SIM card slot	SIM card slot;
27. PSAM card slot	PSAM card slot;

## Chapter III Driver Installation Instructions

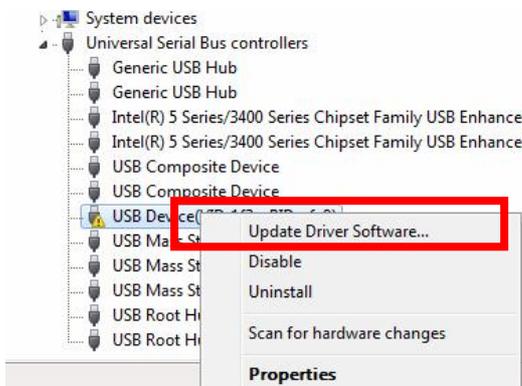
T508A(Q) serials of products driver has "offline Driver Installation" and "Online Driver Installation" two kinds of ways, If you can not access your personal PC Ethernet, you can choose to manually "offline Driver Installation" mode, If your personal PC can access the Ethernet, you can select the "off-line drive to install" or "Online Driver Installation" mode.

OK, we first introduce the "offline drive installed" Tutorial:

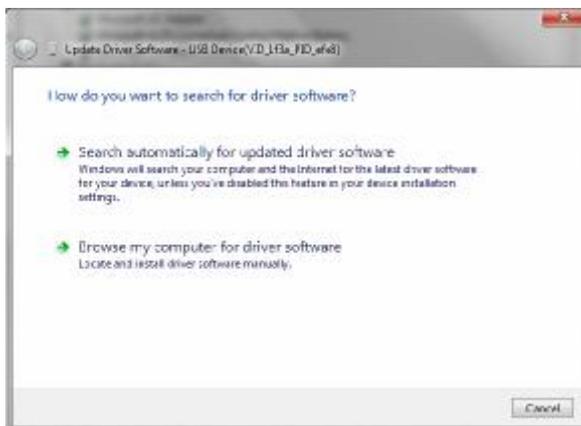
- 1、 Please connect the computer via a USB
- 2、 Right click my computer: mouse the left key attributes, enter



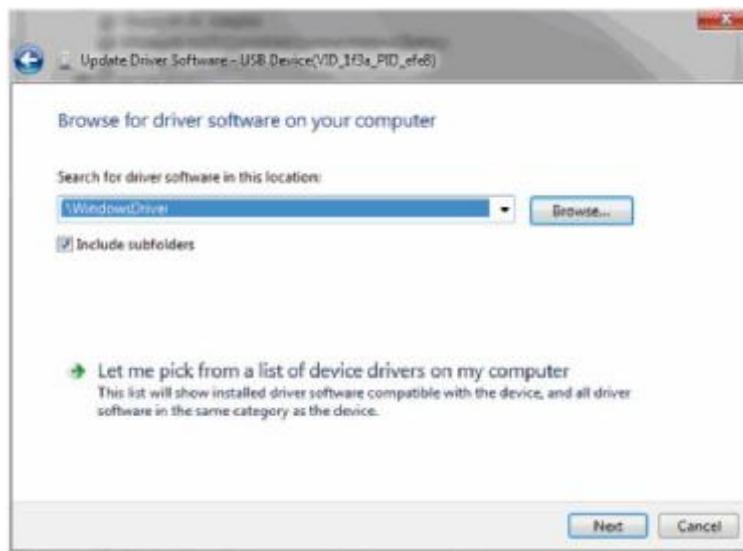
- 3、 Click the yellow dot icon ,Select Update Driver



- 4、 Select Browse my computer for driver software



5、 Click Browse, select the CD-ROM in the usb\_driver folder, click Next to begin the installation



6、 Installation is complete

Online Driver Installation" of using the tutorial:

Installation:

1、 Double click



SnapPea-snappea.exe

2、 Prompt a dialog box ,select Install.



3、 Prompt a box which display that the program is installing.



4、 Once installed, Prompt a dialog box ,select Finish.



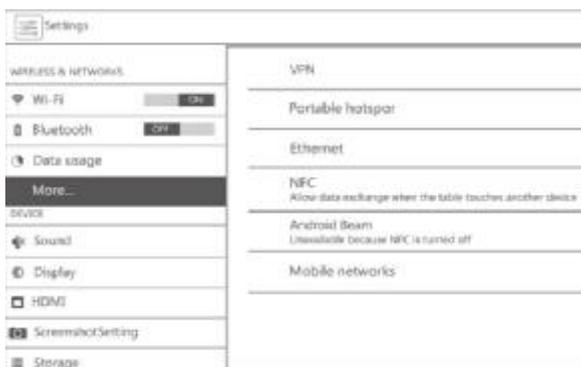
#### Data transmission

- 1、 Connect T508A(Q) to computer through the OTG interface.
- 2、 To select the “Setting” option in application interface;

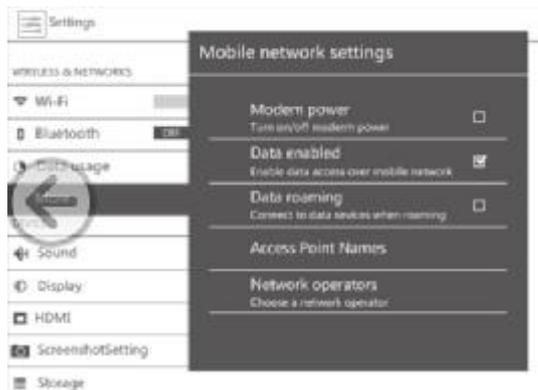


Settings

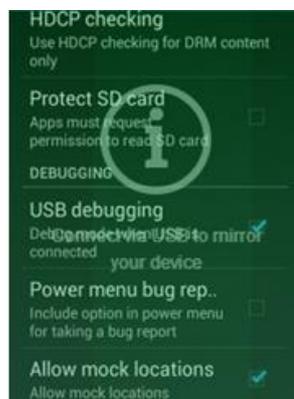
3、 To select the option of “Mobile Networks” in the expanding directory of the “More”;



4、 Remove”√” of the Modem power in the expanding directory.



5、 Select Setting — { }Developer options,click 【USB debugging】 on the right box; selecting the item "USB debugging" ,



6、 Open SpnapPea,and T508A(Q) will connect to the computer automatically.



7、 We can install ,uninstall and export the apps ,we can also move them to SD card.

## Chapter IV Matters needing attention about product usage

### 4.1. The routine use of the product description

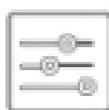
As the stat-up mode is to press switch button for 3 seconds, T508A(Q) serials of products carries Android 4.2.2 and operating system above that, and it also supports a huge number of applications in Android platform. Therefore, you can be good at playing this product as you do with other Android flat products. However, we make the following suggestions to you when you use this product:

- (1)Please select applications facing flat panel. If it is an application facing mobile phone, the whole display frame will reverse 90°, which is a phenomenon caused by length-width ratio definition in application, hence engendering inconvenience to your usage;
- (2)This product doesn't carry the gravity sensor and gyroscope; therefore, various applications needing gravity sensor and gyroscope cannot be normally operated (in terms of such games as Temple Run);
- (3)This product doesn't carry GPS navigation module; therefore, it doesn't have GPS navigation function, but the map and network positioning are still available;
- (4)The 3G module of the products used for WCDMA or CDMA2000, You can use the corresponding protocol 3G card support;
- (5)The requirement for TF card in this product is the same to that in ordinary flat panels. As the file system is FAT32, please format your TF card into FAT32 before using it.
- (6)Limit APK the product installation system of installing software need to enter your password, the product needs typing in password, with the out-of-factory password being "888888". Moreover, clients can change the password and the software to do this is "ChangePass", which has been installed in the system;
- (7)When you use Google store function, limitation of APK installed on this machine function will fail,this belongs to normal phenomenon.
- (8)If you use the inner UPS to dive the machine. In the case of the UPS is a state of low power, it will cause two problems of breezing printing effect and the other internal function module is not working. Once you meet such a situation. The external electricity adapter need to be used to avoid it.

The way to power off the machine is: press the button under the touch screen for a little long time(about 3 seconds) until the messagebox pop up,and then press the button "OK", then the machine will execute the process of powering off, and finally the machine will be powered of successfully! switch machine key can also be used as a HOME key.

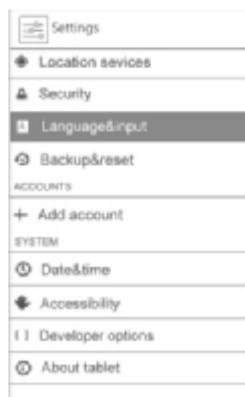
If you are foreign users, you need to use other languages except Chinese as your system language, and please make this setting according to the following steps:

1. To select the "Setting" option in application interface;



Settings

2. To select the option of "Language and Input Method" in the expanding directory;



3. To continue selecting the first item of “Language” from the expanding directory;



4. Here, you can select that language as your system language:



The Android system loaded in our product possesses a complete language package, and you can slide up and down the mouse to select the system language you need according to the interfaces shown in the above figures, in terms of languages such as American English, Japanese and French.

#### 4.2. Printing description

T508A(Q) serials of products carries its own 58mm printer(T508B(Q) with the 80mm printer), The default rate is 115200, support GB2312 code, ASCII code, and part of the Unicode character set (set of characters in order to standard), double height and width, concentration adjustment and point diagram printing. As the printer head is produced by Seiko, its quality is assured.

**Brief functional parameters of that printer are listed as follows:**

- (1)Printing speed of printing module is 60mm/s(80mm printer speed 170mm/s);
- (2)Service life of printer head is more than 50 kilometers;
- (3)Unicode Arabic and Persian character set;
- (4)To support point diagram and LOGO printing;
- (5)To support font, double height and width, chart, line spacing, concentration, Baud rate and adjustment of line spacing;
- (6)To support customization of foreign language characters (to customize foreign language character set according to the need);

(7)To support that the printing paper is as wide as 58mm and the maximum diameter of paper scroll is 60mm.

(8)Support GB18B30 character set, Unicode supports the traditional character set (80mm printer)

### **4.3. Camera description**

T508A (Q) series of products to support the 5-megapixel camera with auto focus. Support the camera and video recording function.

Note: as camera function is optional function, please check whether there is such function in the machine;

### **4.4. LCD description**

#### **Display space**

(1)IPS LCD screen display is a 9.7 inch 4:3 ratio; 1024\*768 resolution, convenient display (E308 (Q)for the 7 inch 4:3 LCD screen resolution ratio, 800\*480).

#### **Character type**

(1)Letter characters, digits, symbols, Chinese characters and other foreign characters.

### **4.5 Capacitive touch screen description**

#### **Touch screen**

(1)The touch screen for 9.7 inch multi-point capacitive touch screen, can support 5 touch; includingdotted operation (E308 (Q) 7 inch capacitive touch screen).

### **4.6. Description about battery system, real-time clock and PSAM/SIM card description**

#### **Battery system**

(1)The data acquisition system using 7.4V 4400mAh for lithium ion batteries, can be circularly charging. Battery is installed in the interior of the machine, the tinkers can not remove;

#### **Built-in clock**

(1)The machine with built-in independent real time clock function, with separate battery power, in the main no electricity supply situation, can be normal operation, ensure real-time clock does not generate abnormal.

#### **PSAM/SIM card installation**

(1)Loosen the bottom SIM clamping and blocking sheets and there are three card slots under SIM separation blade. Thereinto, there are one PSAM card slots for security encryption/important data storage, one SIM card slot for installing SIM card and another one TF card slot for installing TF card, with the maximum capacity being 32GB.

Note: the battery, PSAM card function and 3G communication function belong to optional modules; therefore, please check whether the machine possesses that configuration.

### **4.7. Terminal data communication description**

#### **The terminal makes data transmission with the outside world through wires.**

(1)RS-232 interface: through the communication interface between the terminal equipment (DB9 interface, RJ11 interface) and external data transmission;

(2)USB interface: it is connected to other equipments in the machine;

(3)LAN network interface: it is connected with network cable.

**The terminal connects with the far-end data center collector for installing wireless channel module through wireless channel and it supports the connection with far-end data center to realize the function of remote real-time transmission. GPRS antenna and WCDMA employ built-in antennae, whose sensitivity and signal gain are both better.**

(1)GPRS network: to support GSM network standards;

(2)WCDMA network: to support GSM、 WCDMA network standards;

(3)CDMA2000network: to support CDMA1X 、 WCDMA network standards;

(4)WIFI network: to support IEEE802.11b/g/n.

#### **4.8. Instruction for using NFC reader**

**The NFC reader:**

(1)NFC reader supports high frequency 13.56MHz, support

ISO14443A/B, ISO15693, Mifare,Sony Felica protocol;

(2)NFC module support write and read mode;

(3)The distance of reading Intelligent card can reach more than 3cm;

Note: as NFC module is optional function, please check whether the machine possesses that configuration;

#### **4.9. LED customer display description**

**LED customer display is 10-digit yellowish green nixie tube customer display;**

**LED customer display can only display digits from 0 to 9;**

**Baud rate is 9,600, with data bit being 8 bits and stop bit being 1 bit, and without odd-even check;**

Note: as LED customer display is optional function, please check whether the machine possesses that configuration;

#### **4.10. Contact-type IC card description**

**To support intelligent card reading and writing**

(1)To support ISO 7816 A, B, C category (5V, 3.3V and 1.8V) cards;

(2)To provide reading and writing support to all microprocessor cards conforming to T=0 and T=1;

(3)To support cards according with I2C Bus Protocol (from 1K Bits to 1024K Bits);

(4)To support security memory cards (Atmel AT88Sc153 and AT88SC1608);

(5)To support logic encryption memory cards (AT88SC101/102/103);

(6)To support SLE4404/06/18/28/32/36/42, SLE5518/28/32/36/42 and SEL6636 encryption memory cards;

(7)To support PPS (protocol and parameter selection);

(8)To possess short-circuit protection.

Note: as contact-type IC card is optional function, please check whether the machine possesses that function.

#### **4.11 . The instruction of magnetic card reader**

##### **Magnetic card reader.**

- (1)Support 1 track,2 track,3 track magnetic card;
- (2)Support card data in normal mode and encryption mode;
- (3)Do not support the passbook card;

Note: as magnetic card reader is optional function, please check whether the machine possesses that function.

#### **4.12. The instruction of Bluetooth**

##### **Bluetooth.**

- (1) Supports Bluetooth V4.0;
- (2) Supports Bluetooth data transmission, audio file transmission;
- (3) Supports Bluetooth printing (need to install Bluetooth printing APK);

Note: as Bluetooth is optional function, please check whether the machine possesses that function.

#### **4.13. The instruction of fingerprint identification**

##### **fingerprint identification.**

- (1)Supports optical fingerprint identification function;
- (2)Save supports up to 930 fingerprint information, security level three;
- (3)FAR < 0.001%,FRR < 0.01%;

Note: as fingerprint identification is optional function, please check whether the machine possesses that function.

#### **4.14. Instruction for Upgrade reader**

##### **T508A(Q) serials of products support customer brush machine operation**

- (1)The battery box lid open the bottom of the device, which has a SW BOOT dial switch, switch to"BOOT" end, connecting the MINI-USB interface, you can brush brush machine in accordance with the normal machine operation;
- (2)After flashing the dial switch must be set to "NC" end, equipment to normal switch machine;

## Chapter V Trouble removal

When product suffers troubles, users can voluntarily make some simple examinations to the machine. If simple examinations cannot still solve questions, please don't voluntarily dismount the machine. After recording the bar code and model number on machine body in the product and filling in warranty card, users should contact with local agents or the customer service personnel.

Trouble	Examination	Simple solution
Failing to start the machine up	Whether the power line is connected well	To examine the external power supply and power line
	The power supply connector is connected with the host is good	To check whether power joints are loosening
Failing to log in the system/suffering computer crash	External equipment with problems possibly causes influence to the host or software BUG reduces system into drop-dead halt	To disconnect all the peripheral equipments and attempt to make the product for independent operation with the purpose of excluding interference from peripheral equipments before restarting the machine.
Messy code in printer or failing to print	Check the application software COM port parameters are correct	Reference DEMO program configuration COM CD-ROM export parameter.
Mini USB line Interface computer no response	Mini USB Line connection machine and computer	Check the line, The best desktop computer connected to the back of the U port
	Check the 3G power module is closed	Power off the 3G module
	The USB driver is installed already	Install 360 or pea pods to the computer, connect the device, install the driver

## Chapter VI Statements

In terms of warranty/after service or when clients encounter unsolvable quality problems, please don't voluntarily dismount the machine, so as to avoid causing more serious problems before contacting with local agents or the customer service personnel for solutions. According to the company rule. According to the company rule. The customer can't root the machine without any permission from us. We're not responsible for warranty glitches which is caused by the root. Our company reserves the final interpretation power for product appearance and function, and the company is also entitled to update and change products.

## **Chapter VII Product maintenance and warranty**

In terms of all clients who have purchased T508A(Q) serials of Android multifunctional intelligent terminal products from our company within a year after the company delivers the product, the machine damage or trouble caused by manufacture or component quality belong to the warranty category affirmed by this company, with the detailed warranty period as follows:

(1)Warranty period for the host machine: one year;

(2)Warranty or maintenance methods:

When maintenance is needed to solve troubles occurring in users' products, users can contact with agents or the customer service personnel in our company for maintenance operation.

When contacting with the customer service personnel in our company, you can firstly dial the service hot-line telephone in our company to report situations to customer service engineers there and then these engineers put forward solutions before deciding whether it is necessary to mail the products to the company for maintenance.

Please contact with our company to handle these problems according to the contact information provided by the company.

## **Chapter VIII Matters needing attention about warranty**

### **Maintenance time**

Maintenance time covers three parts: time to take delivery, maintenance time and transportation time for products being delivered back to clients.

Time to take delivery: it refers to the time it takes for our company to take delivery of goods after the products from clients needing maintenance are delivered to Guangzhou; according to different delivery methods taken by clients, it usually lasts for 1 to 3 days.

Maintenance time: it is no more than 5 workdays.

Transportation time for products being delivered back to clients: it depends on the method of delivering products back to clients as well as the distance from clients.

### **Charging standards**

If product exceeds warranty period, the company will charge maintenance costs.

In terms of troubles caused by such human factors from clients as improper uses or voluntary dismounting for maintenance, the company will charge maintenance costs.

Except the above two situations, the company won't charge maintenance costs.

Maintenance cost is only charged for the basic fees in replacing components.

### **Means and fees for delivering products back to customers after (product) maintenance**

Means for delivering products back to clients after maintenance: in terms of 1 to 2 machines, to deliver them with express; in terms of 3 and more, to deliver them with postal express, China Railway Express or bus transportation (transporting expenses of the above means are paid by our company).

Note: if clients require taking special means, the excessive fees are paid by clients.

## Chapter IX Appendix

### Warranty card

Machine type		Machine (identification) number	
User	Unit name:		
	Name of contact person:		
	Contact number:		
	Mailing address:		
	Postcode:		
Warranty period			
Maintenance record			
Maintenance record			
Maintenance record			