AO1X SERIES ARM POS TOUCH ECR USER MANUAL



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Important Safety Information

- Please read these safety instructions carefully.
- Keep this user manual for later reference.
- This product meets the relative requirements of the national standard IEC 60950:2001 "Information technical equipment Security".
- Before turning on the machine, please make sure that the electric power meets the requirements, (such as the electrical pressure and frequency), and that your electrical outlet is really connected to the ground.
- Thunder can hurt this product, even your personal security, so please pull out the network cable, electrical cable and others connecting external on the thunder days.
- The non-experts or non-authorized persons please don't open the machine shell.
- Please don't spatter any sundries or liquor into the machine; please don't slip the heat releasing holes, or it may cause short circuit and therefore may cause fire or get an electric shock.
- Incorrectly changing the lithium battery on the mainboard and the UPS lithium battery in the machine may cause a blast, so please make sure installing and changing the lithium batteries under the instruction of the expert service personnel.
- Please lay this product packed in the 10-35°C environment for at least 2 hours before turning on if it was stored in less than 10°C temperature environment, thus avoiding the hurt on PC due to a big change of environmental temperature.
- For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible.

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1. GENERAL DESCRIPTION

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measure.

1.1. Characteristics

- ※ ALL-IN-ONE Design: integrating with the touch screen, 58mm printer, customer display, magcard reader, Mifare card reader, Smartcard reader, GPRS, WIFI, Bluetooth, Micro SD, etc., meeting multifarious commercial demands.
- With RFID prepaid management of the highest safety class, provide users with ISO14443A RFID card offline issuing mechanism of high safety class and chain management, instead of the online mode with high costs.
- X Supporting up to 6 SAM cards for different card issuers, so as to save devices investment.
- X Optional 7" durable infrared touch screen (AO1IX), avoiding being scratched and aging. Four or five line resistive touch screen is optional (AO1RX).
- ※ With diversified I/O ports, meet commercial management demands for different users.
- X Optional holders, support height setting and angle adjustment for restaurants with limited space.
- ※ CPU of power-saving design costs low power consumption. The 9V2Ah type could standby for 5~10 hours in power outage or outdoor operation.
- X Adopts Linux and WinCE open platform that could replace PC POS completely. The electric expense of PC POS in two years, which is very important for supermarkets with dozens of checkouts, is equal to the price of this device.

1.2. Advanced Functions and Features

- * Embedded with POS software of various types of business such as restaurant, fastfood, convenient stores, etc. (optional), it is able to visit remote data base directly and build chain network.
- X Adopt 600 MHz high-speed ARM 11 CPU with higher and more stable operating speed but lower consumption, supporting Windows CE6.0 & Linux 2.6 or Android 2.3 operating system.
- X Adopt 800*600 LCD, perfect for graphical UI, convenient and user friendly to operate.
- * Multiple color collections.
- X Easy loading printer featuring black mark detection.
- * Fiscal version optional.
- * The modularized hardware design is convenient for maintenance.
- X Realize remote system management, data maintenance and remote upgrading.

1.3. Accessories

+ Our products are not sold to Britain.

+ ALL pictures in this user manual are for references only. Please subject to the available products. Standard Accessories:



AO1X

User manual

Options:

Options	SAM extending components (4)	B: inbuilt UPS	G: GPRS	Magnetic card reader
Model	AO1XA	AO1XB	AO1XG	AO1XM
Options	M1card reader	IC card (contact Smartcard)	Inbuilt WIFI	iButton
Model	AO1XR	AO1XS	AO1XW	AO1XI

Note:

1. If the interface of the external equipment (such as electronic scale, scanner) is a 9D serial interface, you could choose:

(1) Connection cable of 4Pin-9D (male connector) to attach the 4Pin serial interface of the AO1X;

(2) Connection cable of 6Pin-9D (male connector) to attach the 6Pin serial interface of the AO1X.

In addition, the interface of the cashdrawer of the AO1X is 4Pin. If the cashdrawer you use is 6Pin, you could buy PHONE4-623K connection cable to connect the drawer; otherwise, it's needed to change the assignments of connector (refer to chapter 3 "CONNECTION METHODS OF DIFFERENT CASHDRAWERS" for details).

2. The long pole and triangular holder are also for your options to connect the AO1X.

3. The above options can be combined at will. You can purchase them as you need.

1.4. A Visual Tour of AO1X

Before using, please take a few moments to come familiar with AO1X.



Customer display

ATTENTION! When operating WINCE operating system, avoiding causing malfunction of external devices, please do not quick start and turn off the SLEEP function, that is to say, do not quick shift the SLEEP mode control switch. We suggest you turn off the SLEEP function after 10s after starting.

1.5. Dimension







1.6. Holder Installation

There are two kinds of holder for your choose to hold the AO1X, so that it could be more convenient to operate.



Picture 1

1. Long pole, shown as picture 1.

Working environment: It's very suitable for small stand-type counters with limited space. Operators could rotate it about 60° forwards and backwards, and make left and right turning. For restaurants with limited space, it's suggested elevating and rotating the AO1X.

Installation details:

- ① Install the 4 external fixing sleeves to the rotary bracket as picture 2.
- ② Install the 4 head tapping screws (Φ 2.6*15mm) from the spacer to the fixing hole of the fixing sleeves, so that the ball connector could fix on the back of the AO1X as picture 3.
- ③ Refer to DH1X installation guide to fix the holder on the desk. Here we take the type of desktop clamping as an example.
- ④ Attach the fixing part to the holder with inner hexangular screw (M8*30mm) as picture 4.
- (5) Install the inner hexangular screw (M8*50mm) from the zigzag spacer and fixing part to the ball connector as picture 5.





2. Triangular holder, shown as picture 7. Working environment: to raise the operating angle. It's suitable to use in a sufficient space.

Installation details:

- 1 Stick the 4 pads on the pedestal as picture 8.
- ② Fix the pedestal to the AO1X with 2 head tapping screws (Φ 2.6*8mm) as picture 9.



Picture 9

Picture 10

1.7. Technical Parameter

Mainframe Configuration			
Processer		Arm11 600MHz CPU	
Memory		256MB RAM	
Storage		256MB NAND Flash	
Power Supply		DC 9V	
Operating System		Windows CE6.0 & Linux & Android 2.3	
	Operator Display	7"TFT LCD; 800*600 resolution	
Display	Operator Touch Panel	Infrared Touchscreen (optional Resistive Touchscreen)	
	Customer Display	32*144Dots LCD	
	Serial Port	1 internal; 2 external (able to connect to a Cash Scale or a second printer)	
	Ethernet Port	1 external 10M/100M Ethernet port	
	USB Port	5 external USB2.0 (4 standard USB; 1 mini USB)	
	WIFI	Optional internal or external IEEE 802.11b/g/n	
Peripherals	Bluetooth	Optional internal or external Bluetooth	
	RFID Card	RFID reading and writing module	
	Contact IC Card	Support contact-type IC card	
	GPRS	Optional GPRS module	
	SD Card	MicroSD card socket	
Drintor	2" Thermal Printer	57mmx Φ 50mm	
Filiter	Print Speed	80mm/s	
Dimension	Dimension	272mm (L)* 152mm(W) * 106mm(H)	
Dimension	Weight	0.8kg	

1.8. Connector Panels

Definition of Connector Panel 1:

It is located under the customer display.



Definition of Connector Panel 2:

It is located at the back of Connector Panel 1. To clearly see the panel you must turn the machine upside down.



1.9. Power On/Off

1.9.1. Power On

Press the power button ③ 3s directly at the first time of using the device since the inbuilt battery has a small amount of electricity. When the battery is too low, please plug in the power adapter.

1.9.2. Power Off

Press the power button 3s to power off.

1.9.3. Sleep

While the device is in working status, short press power key to make it enter the sleep mode, at which moment the backlight of the screen and the peripheral equipment (such as scanner, external USB device) are turned off.

To recover the working status, short press power button again. And the peripheral equipment will be repowered on at the same time.

2. CONNECTION METHODS OF DIFFERENT CASHDRAWERS

You can install a cashdrawer through the cashdrawer port. The cashdrawer port is suitable for RJ-11 (4 Pin) connector. While using other brand's cashdrawer with ACLAS AO1X, alteration of assignments of connector pins may be necessary. Please verify the pin assignment before installation.

In this chapter, we take EPSON cashdrawer for example to tell how to alter the connector pins' assignments according to the schematic (PIC(1)). Besides, there are schematics showing you how to alter pins' assignments of connectors of common brands' cashdrawers.

Cashdrawer Pin Assignment



Pin	Connectoer
1	DC +24V
2	NC
3	DRAWER-OUT
4	NC

Take EPSON cashdrawer for example, alter 6 pin connecter into 4 pin one. Please see the following pictures.



PIC① -- Pin Assignment Alteration



PIC⁽²⁾ -- This is the connector picture of EPSON cashdrawer. The left-most pin is pin 1. The pin order is from left to right. Pin 2 connects with the red line. Pin 4 connects with the yellow line.

Separate the crystal head from the cable.



PIC³ -- After separation

PIC⁽⁴⁾ – According to PIC⁽¹⁾,connect pin1 of PHONE4C with the yellow line, and pin3 with the red line.

The alteration of pin assignment is

Pin Assignment Alteration of Connectors of Common Brands' Cashdrawers:

















3. INSTALLATIONS

3.1. SIM Card Insertion

- Open the printer cover. The SIM card slot is on the right of the paper compartment as PIC① shows.
- Upward the broken corner of the SIM card, rightward the chip and then insert the SIM card to the slot.



PIC (1) SIM card slot

3.2. Thermal Paper Replacement

When a roll of thermal paper is run out, please replace it with a new one by following the steps below: Note: Before replacement, please get rid of the gummed paper completely on the head of the new thermal paper; if not, the residual may cause printing head malfunction.

- 1. Open the printer cover as PIC(2) and PIC(3) shows.
- 2. Place the thermal paper into the compartment and get a short length out as PIC ④shows.
- 3. Press down the printer cover to close it as PIC ⑤shows.



PIC2 15



PIC³



PIC⁽⁴⁾



PIC⁵

> <u>Choose of Thermal Paper</u>

We suggest you choose high sensitive thermal paper, such as Aclas DJ03, OJI, PD-160R paper, by which the printer could print more clearly on its smooth surface and cost lower consumption. Bad quality thermal paper with rough surface and low sensitivity may reduce the lifetime of printer head.

Note: There is a colored band in the last length of ACLAS thermal paper, indicating that it is going to run out.

4. WINCE INSTRUCTION

4.1. Set Communication

It's to set the communication between the AO1X and PC.

1. Connect the AO1X to PC with Ethernet cable.

2. Click the 'Start' menu in the PC, and choose 'Control Panel' \rightarrow 'Administrative Tools' \rightarrow 'Local Security Policy' \rightarrow 'Local Policies' \rightarrow 'Security Options'. And then change the security model of the policy 'Network access: Sharing and security model for local accounts' into 'Guest only-local users authenticate as Guest'.

	۵ 	1	
Security Settings	Policy A	Security Setting	
	题Microsoft network client: Send unencrypted password to third-party SMB servers	Disabled	
	题Microsoft network server: Amount of idle time required before suspending session	15 minutes	
Audit Policy	颱Microsoft network server: Digitally sign communications (always)	Disabled	
Security Options	👸 Microsoft network server: Digitally sign communications (if client agrees)	Disabled	
	👸 Microsoft network server: Disconnect clients when logon hours expire	Enabled	
Software Restriction Policie	👸 Network access: Allow anonymous SID/Name translation	Disabled	
🕂 🥄 IP Security Policies on Loca	Network access: Do not allow anonymous enumeration of SAM accounts	Enabled	
	题Network access: Do not allow anonymous enumeration of SAM accounts and shares	Disabled	
	Network access: Do not allow storage of credentials or .NET Passports for network authenti	Disabled	
	题Network access: Let Everyone permissions apply to anonymous users	Disabled	
	👸 Network access: Named Pipes that can be accessed anonymously	COMNAP,COMNODE,SQL\QUERY,SPOOLSS,LLSRPC,	
	Network access: Remotely accessible registry paths	System\CurrentControlSet\Control\ProductOptions,	
	BigNetwork access: Shares that can be accessed anonymously	COMCFG,DFS\$	_
	Network access: Sharing and security model for local accounts	Guest only - local users authenticate as Guest	
	Betwork security: Do not store LAN Manager hash value on next password change	Disabled	
	Wetwork security: Do not store LAN Manager hash value on next password change Wetwork security: Force logoff when logon hours expire	Disabled Disabled	
	Wetwork security: Do not store LAN Manager hash value on next password change Network security: Force logoff when logon hours expire Network security: LAN Manager authentication level	Disabled Disabled Send LM & NTLM responses	
	Wetwork security: Do not store LAN Manager hash value on next password change Wetwork security: Force logoff when logon hours expire Network security: LAN Manager authentication level Network security: LDAP client signing requirements	Disabled Disabled Send LM & NTLM responses Negotiate signing	
	Wetwork security: Do not store LAN Manager hash value on next password change Wetwork security: Force logoff when logon hours expire Network security: LAN Manager authentication level Network security: LDAP client signing requirements Network security: Minimum session security for NTLM 55P based (including secure RPC) clients	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum	
	Wetwork security: Do not store LAN Manager hash value on next password change Wetwork security: Force logoff when logon hours expire Wetwork security: LON Manager authentication level Wetwork security: LOAP client signing requirements Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum No minimum	
	Wetwork security: Do not store LAN Manager hash value on next password change Wetwork security: Force logoff when logon hours expire Wetwork security: LAN Manager authentication level Wetwork security: LDAP client signing requirements Wetwork security: Minimum session security for NTLM SSP based (including secure RPC) clients Wetwork security: Minimum session security for NTLM SSP based (including secure RPC) clients Wetwork security: Allow automatic administrative logon	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum No minimum Disabled	
	Network security: Do not store LAN Manager hash value on next password change Network security: Force logoff when logon hours expire Network security: LAN Manager authentication level Network security: LDAP client signing requirements Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) serv	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum No minimum Disabled Disabled	-
	Network security: Do not store LAN Manager hash value on next password change Network security: Force logoff when logon hours expire Network security: LAN Manager authentication level Network security: LAN Manager authentication level Network security: DAP client signing requirements Network security: Minimum session security for NTLM 55P based (including secure RPC) clients Network security: Minimum session security for NTLM 55P based (including secure RPC) clients Network security: Minimum session security for NTLM 55P based (including secure RPC) clients Network security: Minimum session security for NTLM 55P based (including secure RPC) clients Network security: Minimum session security for NTLM 55P based (including secure RPC) serv Recovery console: Allow automatic administrative logon Network security and secures to all drives and ell folders Shutdown: Allow system to be shut down without having to log on	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum No minimum Disabled Disabled Enabled	-
	Network security: Do not store LAN Manager hash value on next password change Network security: Force logoff when logon hours expire Network security: LAN Manager authentication level Network security: LAP client signing requirements Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) serv Recovery console: Allow automatic administrative logon Recovery console: Allow floppy copy and access to all drives and all folders Shutdown: Allow system to be shut down without having to logon Shutdown: Clear virtual memory pagefile	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum Disabled Disabled Enabled Disabled	-
	Wetwork security: Do not store LAN Manager hash value on next password changer Wetwork security: Force logoff when logon hours expire Network security: LAN danager authentication level Network security: UDAP client signing requirements Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Recovery console: Allow automatic administrative logon Shecovery console: Allow floppy copy and access to all drives and ell folders Shutdown: Clear virtual memory pagefile System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum Disabled Disabled Enabled Disabled Disabled	-
	Wetwork security: Do not store LAN Manager hash value on next password change Wetwork security: Force logoff when logon hours expire Wetwork security: LAN Manager authentication level Wetwork security: LAN Manager authentication level Wetwork security: UDAP client signing requirements Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) clients Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) clients Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) clients Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) clients Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) serv Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) serv Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) serv Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) serv Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) serv Wetwork security: Minimum session security for NTLM 55P based (including secure RPC) serv Wetwork security: Network security to be shut down without having to loon Wetwork security is the PIPS compliant algorithms for encryption, hashing, and signing System objects: Default owner for objects created by members of the Administrators group	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum No minimum Disabled Disabled Enabled Disabled Disabled Objabled Object creator	-
	Network security: Do not store LAN Manager hash value on next password change Network security: Force logoff when logon hours expire Network security: LAN Manager authentication level Network security: LDAP client signing requirements Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) clients Network security: Minimum session security for NTLM SSP based (including secure RPC) serv Recovery console: Allow automatic administrative logon Recovery console: Allow floppy copy and access to all drives and all folders Shutdown: Clear virtual memory pagelile System objects: Default owner for objects created by members of the Administrators group System objects: Require case insensitivity for non-Windows subsystems	Disabled Disabled Send LM & NTLM responses Negotiate signing No minimum No minimum Disabled Disabled Disabled Disabled Object creator Enabled	-

3. Set the IP address of PC and AO1X. They should be in the same network segment. For example, if the IP address of PC is 192.168.1.007, then the IP address of AO1X should be 192.168.1.XXX.

ech.

4. Click the 'Start' menu in AO1X, choose the item 'Run', input the full name of PC as below interface, and then click the icon 'OK'. Finally, AO1X gets access to the shared folders of PC.

Users could right click the icon of 'My Computer' in PC \rightarrow choose the item 'Properties' \rightarrow choose the menu 'computer name' to find the full name of PC.

Run	? 🛛
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	\\test-1105.
	OK Cancel Browse

4.2. GPRS Settings

- 1. Click 'start' menu in AO1X \rightarrow 'control panel' \rightarrow 'network and dial up wizard'
- 2. Choose 'Make New Connection', and then a window pops up as below.

Make New Connection	×
Type a name for the connection:	
GPRS	
Coloct the connection type:	
Dial-Up Connection	
O Direct Connection	
◯ <u>V</u> irtual Private Network (PPTP)	
Virtual Private Network (L2TF	Choose 'Next'
O PPP over Ethernet [PPPoE]	7
< Back Next >	
🎖 Start 🛛 🖉 🕹 12:05 PM	
<u></u>	
Madem	<u>×</u>
GPRS GPRS	
Select a modem:	Choose Configure'
Hayes Compatible on COM1:	V
<u>C</u> onfigure	
TCP/IP Settings	
Security Settings	
Security Settings < Back Next >	
Security Settings) < Back Next > Start C C C A PM @	

Device Properties OK	Choose baud rate 115200
Port Settings Call Options	
Baud Rate: 19200	-
Data Bits: 8	*
Parity: None	*
Stop Bits: 1	~
Elow Control: Hardware	×
Use terminal window before dia	ina
Use terminal window after dialin	Choose flow control
Manual Dial	'Software', and then click
	OK.
ಶ Start 🛛 🕼 🔔 12:03 PM 📴	
Connection 13 1 V (a) 19 Modem	
Modem,	
CI GPRS	
Select a modem:	~
Hayes Compatible on COM1:	×
Configure	
TCP/IP Settings	
Security Settings	Choose 'Next'
Ogcarity obtaings	
< Back Next >	
🍠 Start 🛛 🚺 🕵 🕹 12:04 PM	

Phone Number	
CI GPRS	Input the phone number
<u>Country/region co</u>	'*99#', and then click
Area code:	the button 'Finish'.
Phone number:	7
*99#	
	nice
	10.000
< Back	Finish
🄊 Start 🛛 🔋 🖓 🕹	12:07 PM 📴 🎰

Note: If connection is not available via phone number '*99#', please connect the local telecommunications.













4.3. Test Instruction

4.3.1. External Device Test

Program 'test.exe' is used to show the status of all the external devices of AO1X, including customer display, print status, cash drawer, read device number and soft shutdown.

The steps are: Open the program 'test.exe' in the file 'TEST ' on the desk. After running, the AO1X will show the current status of each device first, and then users could take the test operation.

(1) CLCD ON: To turn on the backlight of customer display.

(2) CLCD OFF: To turn off the backlight of customer display.

- (3) Display1: Simple content of the customer display.
- (4) Display2: The customer display show simple content.
- (5) Contrast 1: The customer display show simple content.
- (6) Contrast 2: The contrast of the customer display.
- (7) Forward: Test the function of printer outfeed.
- (8) Backward: Test the function of paper retracting of the printer (Note: This function is for retracting a short section of paper only).
- (9) Print: To test the print function of the printer.
- (10) Drawer: To test the function of cash drawer.
- (11)Product ID: To read device's ID
- (12) Power Off: Soft shutdown.
- (13)GPRS: Refer to chapter 4.2 to set the GPRS correctly, and then press this button to open the GPRS connection. After a few seconds, the system will prompt you to disconnect the GPRS or not.
- (14) Clear Log: To clear all data that display on the test page of the screen.
- (15)Exit: To exit the program.

In addition, users could test the iButton, magcard, smartcard, RFID card and buzzer if needed.

- (1) iButton: To read the ID number from the test page by pulling and plugging the iButton.
- (2) Magcard: Swipe the magcard, and then display the data in second track to test page.
- (3) Smartcard: Install the smartcard to the slot, and then the data that has been read will be displayed in the test page.
- (4) RFID card: Place the RFID card near the reading area, and then the data that has been read will be displayed in the test page.
- (5) Buzzer: The buzzer could beep normally during operation.

4.3.2. Print Test

Program "PrintDemo.exe" is to display the link library of printer in form of BMP.

The steps are: Open the program 'PrinterDemo.exe' in the file 'PrinterDemo' on the desk of AO1X. Press the button 'Print' to test. If test succeeds, the AO1X will print out all available font of WINCE.

4.3.3. RFID Test

The program 'ALCAS_RFID.exe' is to show all functions of RFID S50 card.

The steps are: Open the program 'ACLAS_RFID.exe' in the file 'ACLAS_RFID' on the desk. The system displays as follow:

Aclas RFID Demo Program v1.000a		
	RFID Card Log	
O ENABLE ALL VITE KeyAorB KeyAorB	Aclas RFID Card Demo v1.000a Copyright © 2012 all right reserved	
RFID Inc Dec KeyAorB KeyAorB	Designed by Jacky Lin	
Write Access conditions for data blocks	s	tatus column
USE KEY 🔽 Locked		
KEYA AAAAAAAAAAA KEYB BBBBBBBBBBBB		
Sector(0-15) 15 Block (0-3) 0		
Write Data Block	Show Dahua Masagaa	
3531F69F1F029E2E684335CCAC951484	Show Debug Message	
Random Write Block		
	Init Value 1000	
Read Data Block	Inc/Dec Value 10	
	Current Value 0	
Read Block	Read Init INC Dec	
Change KeyA KeyB	Fyit	

(1) Set the sector and block that to access as below picture.

Sector(0-15)	15	Block (0-3)	0
	100		12

Sector (0~15): 0~15 sector; Block (0~3): 0~3 block

There are 63 blocks in one piece of RFID card. Sector 0 could be read only. Each block has its KEYA and KEYB.

(2) Press the button below could read the conditions of accessing data blocks.



E.g To access sector 9, block 1. The status column will display as follow:

RFID Card Log

Job Mode: AccessMode Card authentication: use KeyA Access Sector: 9 Block: 1 KeyA: FFFFFFFFFF Waiting for Card...

(3) Input password

USE KEY	Locked
• KEYA	ААААААААААА
• KEYB	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
 KEYAD KEYBD 	FFFFFFFFFF

Each block has its own KEYA and KEYB. To access a block, users should input password first.

If the input password is incorrect, there will be no access to this block and users could read the card number only.

KEYAD, KEYBD: empty card's KEYA and KEYB. The default password is FFFFFFFFFFFF. If the password is modified, please use KEYA or KEYB to get access.

(4) Write data block

Press key 'Random' as below picture. And then close the RFID card to the AO1X, press key 'Write Block' to write the data block to the RFID card.



(5) Read data block

It's to check whether the data block has been written in the RFID card or not.

Close the RFID card to the AO1X, and then press key 'Read Block' as below picture. If the data block that has been read is the same as that of the written, the writing operation is successful.



(6) Value block

In this module, users could set the value of RFID card.



5. CHOOSE EXTERNAL WIFI USB CARD

If the AO1X is not equipped with WIFI, you could buy an external WIFI USB card to realize the WIFI function.

Our company supplies two kinds of WIFI USB card for you to choose.

Note: If you want to buy the card by yourself, you should choose a card that meets the follow requirements:

1. The inbuilt chip should be ralink3070/8192.

2. Support LINUX kernel-2.6and WINCE 6.0 OS.

Herand: KONIX.

Recommended type: W247

Version: 1.2

Appearance:



Specifications:

USB Wireless LAN 802.11N 1T1R	
Туре	W247
Interface	USB 2.0
Standard	IEEE 802.11b/g/n
Data Transfer Rate	11/54/135/150Mbps
Antenna	Onboard antenna
Wireless Distance	Outdoor/Indoor(100/300m)
Transmit Power	17dBm
Frequency Range	2.4 - 2.485GHz
Network Configuration	Ad-Hoc (PPN), infrastructure
Dimension	10mm(L) * 8mm(W)* 3mm(H)

Features:

- Small and elegant, easy installation
- Apply the latest encryption standard to secure the network
- Network area is relatively small and transmit rate is relatively slow due to small size.

Brand:DLINK

Recommended type: DWA-125 A2 Version: 1.01and above Appearance:



Specifications:

DWA-125Wireless N150 USB Adaptor	
Туре	DWA-125 A2
Interface	USB 2.0
Standard	IEEE 802.11b/g/n
Data Transfer Rate	11/54/150Mbps
Antenna	Onboard antenna
Wireless Distance	Outdoor/Indoor(100/400m)
Transmit Power	17dBm
Frequency Range	2.4 - 2.5GHz
Network Configuration	Ad-Hoc (PPN), infrastructure
Dimension	88.5mm(L) * 28mm(W) *5mm(H)

Features:

- Easy installation, high-speed and reliable transmission.
- Long wireless distance could cover a large area of business and office network.
- Apply the latest encryption standard to secure the network
- Protection setting button of WIFI could build connection quickly.
- The dimension is relatively large, which may reduce the convenience and elegance, if connects with AO1X series Arm POS.

6. FAMILIAR MALFUNCTIONS ANALYSIS AND ELIMINATION

1. Cannot Turn On the AO1X Terminal

Reasons Analysis:

If the AO1 cannot be turned on after connecting with the power supply, the possible reason may be there are some problems on the power supply.

Solutions:

- (1) Firstly please check if the power adapter is electrified.
- (2) Please check if the terminal connects with the power adapter well, and then repress the power button.
- (3) Bad work situation (high temp. or work too long time) may cause the terminal to turn off automatically. Please wait for a moment before turning it on again to improve the work situation.
- (4) If this problem is caused by abrupt power off or illegal turning off, please pull out the power adapter from the terminal, and then press power button several times, then insert the power adapter into the terminal and turn on the terminal.
- (5) If the indicator light of power adapter is off or twinkling when connecting with the power, please pull out it immediately, and check if its indicator light is normal; if it is normal, please don't connect with the power again; please contact our service center immediately.
- (6) If the AO1X you choose has the reset button, please try to press it to reset the device.

2. AO1 Terminal Auto-Restart (Or Turn Off)

Reasons Analysis:

The occasion of AO1X auto turn off or restart occurs very often in working status (or just after startup). Solutions:

- (1) Please check if the power is well connected;
- (2) Please check if AC 220V is steady;
- (3) If this problem is caused by abrupt power off or illegal turning off, please wait for a while to restart the terminal.
- (4) If it is caused by hardware addition or replacement, please return or remove the hardware.

3. The AO1X cannot surf the Internet (or low efficiency).

Reasons Analysis:

The AO1X could not get access to the webpage.

Solutions:

- (1) Please check if the external network cable is well connected;
- (2) Startup the AO1X, then install the network cable. Check if the green light in the connector of network cable is on and the orange light is twinkling or not. If not, please recheck the network cable is well connected.

4. Cursor In Touch Screen Flops At The Same Place Or Touch Inexactly

Reasons Analysis and Solutions:

- (1) Please check if the touch screen is dirty or stuck with foreign matters. In that case, please get rid of the foreign matters and make the screen clean.
- (2) Please check if the shell is transfigured. In that case, the machine needs to be returned to the factory.

5. The Screen Displays Unclearly Or With Water Wave

Reasons Analysis and Solutions:

Please make sure the compute is away from the high-pressure equipments.

6. USB Equipment Cannot Be Used

Reasons Analysis and Solutions:

- (1) Check if the USB equipment is ok;
- (2) USB equipment cannot be too long, or it may be not provided enough power.

7. Cannot go on ordering

Note: this function is only for LINUX system.

Reasons Analysis and Solutions:

- (1) Because of full record of transaction, it cannot go on ordering. Please enter into Maintenance on the main menu, and then enter 4067 to enter into the next menu. Select and enter into Utilities, and then select Clear All to clear the transaction record.
- (2) Enter a digit of high value like 5000, and then order a commodity. By now, the sales page will be jamming and cannot go on ordering. This phenomenon is caused by the same reason as the first point above described. Please do the same as the above solution.

8. Cannot Connect With The Printer

Reasons Analysis and Solutions:

- (1) Firstly check if the printer is ok;
- (2) If the printer connects with POS terminal well.

9. AO1 Cannot Print After Checkout.

Note: this function is only for LINUX system.

Reasons Analysis:

The setting of printing after checkout is not open in software settings.

Solutions:

Enter into Run Office \rightarrow Yes \rightarrow Master Till \rightarrow Setup Printers \rightarrow 1 (enter the password) \rightarrow Setup \rightarrow Till Setup \rightarrow Touch Screen \rightarrow Master Till \rightarrow Edit Till \rightarrow Setup Printers \rightarrow AO1X \rightarrow Setup Devise \rightarrow Manual Printer. Turn the green tick ' $\sqrt{}$ ' to a red cross ' \times '.

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