

Ver. 2.0

Model : AT280

ATID Co., Ltd

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#### **FCC Information to User**

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 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 con-nected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Comp liance Information :** 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

#### **Body-worn Operation**

This device has been tested for body-worn operation and meets FCC RF exposure guidelines. Body-worn operation is restricted to accessories that maintain a minimum of 1.5cm separation to the body and do not contain metallic components. Use of any other body-worn accessories may not compliance with FCC RF exposure guidelines. For more information about RF exposure, please visit the FCC website an www.fcc.gov

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- ATID reserves the right to change any contents of this manual at anytime without prior notice.
- There are maybe some differences between the contents of this manual and the actual behavior of product.

This manual is written for the person who is responsible for installing, configuring, and maintaining the Si303, Si203, AT880, AT280 PDA. Read and follow all warnings and cautions in this document before you handle and operate ATID equipment

#### **Safety Information**

Read and follow all warnings and cautions in this manual before you handle and operate ATID equipment. If you do not follow the safety warnings and cautions, you might be seriously injured, and the equipment and data are also might be damaged.

#### Warnings!

A warning req uires y ou m ust p ay attention t o the operating proc edures, prac tices, conditions, and statements strictly, or might be injured seriously.

#### Cautions

A c aution ale rts you that y ou must be observe strictly when you oper ating procedure, practicing, configuring, for preventing from damage and destruction of equipment, and loss of data.

#### Note

A note provides you the information which you must needs while you using Si303

# Chapter1. Caution when using ATID PDA Product

Before you handle and operate your AT280 and other ATID PDA Products, Please read through and familiar with the contents of this manual.

#### 1. How to use the battery correctly

- When you dropped the main body or battery in water, please do not put it on the stove or heater for drying. Just keep it in natural temperature or contact with purchase place.
- Please do not take the metal object to approach to the terminal of battery
- If you do not use the battery for a long time after charging, please keep it at room temperature.
- According to the life of battery and the processing time of its using, the buffering time can be shortened. In this case, please contact your dealer.
- You have to charging the device with the provided adaptor from factory.

#### 2. Caution when using ATID PDA Product

- User car eless or products r epair may would d amage the store d d ata. Ma nufacture is n ot responsible for this damage, so important data should be kept separately
- If your AT280 has problem, do not try to repair or disassemble the product arbitrarily, please contact customer service center.
- Do not use your AT280 where have electromagnetic wave or the risk may occur such a s hospital, plane so on.
- A high temperature or high humidity environment will causes trouble, Please note that.
- Please do not using other sharp object to touch the screen, otherwise it might be get damaged or not working properly.
- Please be careful not to touch the metal paper cutting saw tooth, so as not to get injured
- If smell od ors, occurs s moke or noise during use product, immediately disconnect the charger and off the power, then Please contact with customer service center
- If you have any other questions during use, please contact the customer service center

# **Chapter2. Products compositions**

AT280 mobile computer is a small, ergonomically designed PDA, which built on the Microsoft window CE 5.0 Operating System. The PDA could equip with Barcode Scanner and so on devices as optional items. Its various function applied to Industry, Enterprise, Logistics and so on, can be used extensively in many fields.

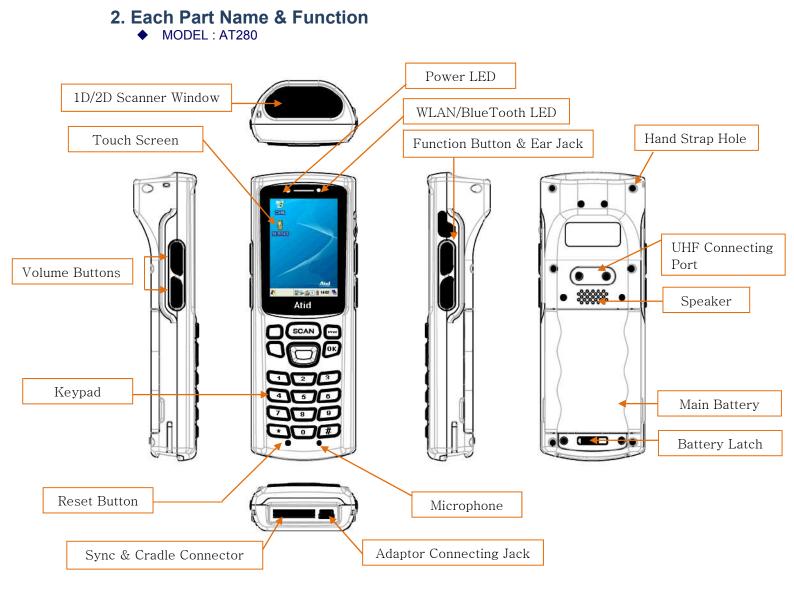
## 1. Package components

After opening the product packaging box, check the items listed as below:





\*If there is missing or defective products on the above, please contact the customer support center or your place of purchase.



#### User's Guide

Part	Descriptions
1D/2D Scanner Window (Option)	Laser beam emitted through this window. Please be careful the foreign substances and preventing from the damage. <b>Warning!</b> Do not look at the laser beam directly.
UHF Connecting Port	Enable you to install a UHF 900Mhz tag reader module.
Reset Button	Enable you to perform a Warm Reset, Press <power>button simultaneously, enable you to perform a Hard Reset.</power>
Microphone	Enable you to conduct communication.
WLAN/Bluetooth LED	Indicates WLAN & Bluetooth power on-off status.
Battery Latch	Enable you to detaching and attaching the main battery.
Main Battery	Enable to supply the power to the product.
Volume Buttons	Enable you to press <fun>button simultaneously to adjusting volume.</fun>
Function Buttons	Enable you to scan Barcode and RFID Tag.
Speaker	Build-in speaker, which could emit various sound effects.
Sync Cable Connector	Enable you to connect and send data to PC via USB sync cable.
Ear Jack	Enable you to connect to earphone.
Power LED	Power LED will be Red when the battery is charging, or will be green when it is charged completely.
Adaptor Connecting Jack	Enable you to connect to adaptor which provided from factory.
Cradle Connector	Enable you to connect to PC or charging the battery while using cradle.
Key Pad	Enable you to input key value (number, alphabets, symbol), or executing assigned programs.
Touch Screen	Display running programs, and could execute, use, and exit programs via using stylus to touch the screen.
Hand Strap Hole	Enable you to attach a hand strap or a stylus for the convenience of using, while need to use the device for a long period time.

# **Chapter3. Basic Functions**

## 1. Power and Battery

AT280 battery is composed of main battery and backup battery. A main battery supplies the power to the system and RAM which could keep save the data. A backup battery could keep save the data of RAM when the main battery discharged completely.

Main Battery: 3.7V 2,200mA Lithium - polymer Backup Battery: 3.7V 105mA Lithium – polymer

Connecting adaptor to the PDA adaptor connecting jack, and check if the "Power LED" is Red, and then charging the power completely until it get into Green.

#### 1.1 Power On and Off (All Products are common)

Press <Po wer> b utton one time , the device will enter low-Power mode (Sleep Mode) under the system is started and the following window is displayed on the desktop or other programs is running in the system. Press <Power> button once again could activate the system.

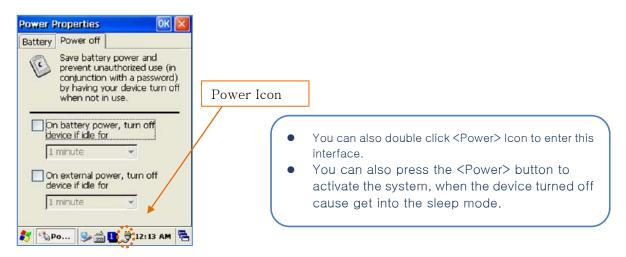


**Taskbar:** Display the currently running programs. **Start button:** Activates the start menu and then execute a program.

#### > Power off automatically

The device has been powered but has not been used for a period of time, then the system will enter low-power mode (sleep mode) automatically. You could set the sleep mode time at the power management so that could save power and prolog the battery life.





#### Battery Discharging

If the main battery discharge completely, the system will not turned on, the device will get into low-power mode (sleep mode) automatically, and even press the <Power> button, the system will not be turned on. In this case, you should charge the main battery or connect the adaptor to the adaptor connecting jack of main body, then press the <Power> button to turn on the system.

#### 1.2 Check ing Battery Gauge

#### • Note:

Battery life is largely affected from the user using method and surrounding environments. A 2200mA battery is usually needs  $6 \sim 12$  hours to get charged completely.

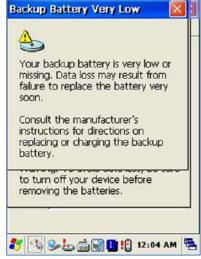
#### > Checking Battery Gauge

[Start Button] -> [Setting] -> [Control Panel] -> [Power Management] -> [Battery]

Power Properties	OK 🚺
Battery Power off	
Main	
<b>#</b>	No Battery
$\sim$	
BackUp	
<u> </u>	Charging
GUN	
	ver:0%
G Remaining Pov	
🐉 🔩 Po 🎭 🍰 🚺	12:14 AM

#### > Low Power Warning

If the remaining battery gauge cannot support the system running any more, a low power warning message window will be popped up on the screen. In this case, you need to press the <Power> button to turn off the power, and to charge the battery as soon as possible.



#### 1.3 Ba ckup Battery

A backup battery could safely keep the RAM data, even the main battery discharged completely.

#### Caution:

If the main battery and the backup battery are both discharged, the RAM date will disappear. Among the running programs, the RAM data will disappear in which are using, and the system will not be restore to previous state, but rebooting system after start charging.

#### 1.4 Dispose of Battery

You need to purchase a new one if the battery damaged or reached its end of life.

Warning!
 Please dispose the used batteries in a designated place.

## 2. System Reset

If there is no response from the system or an application is locked up and stops responding, and when you want to upgrade the firmware, reset the system is maybe necessary.

#### 2.1 Sof t Reset

#### When do you need to perform Soft Reset?

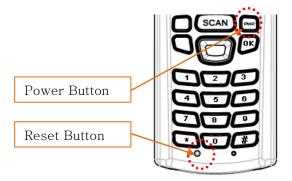
If there is no response for your command from the system, it calls (Hang-up). In this case, you need to perform a soft reset. Soft reset will end programs and the user memory region will be deleted, but installed programs and data, and so on, are not affected.

#### [Soft Reset Procedure]

Using the st ylus pen to press < **Reset**> button b riefly, the system will restarting again, after the screen turns off shortly.

#### [Soft Reset Result]

- System will be restarting.
- Operating System will be restarting (Windows CE).
- Desktop will appear in about ten seconds.
- User's changed registry information, copied files and Installed programs will be restored.



#### 2.2 Ha rd Reset

#### When do you need to perform Hard Reset?

Hard Reset, which is a lso called **Cold Reset**, enables to initialize hardware completely. User's installed programs, copied files and registry values will keep remained even Si303 performed Hard Reset, but the real time and date will be initialized. So you need to r eset the time and date after performed Hard Reset.

You need perform Hard Reset when the Soft Reset cannot restore the system.

#### [Hard Reset Procedure]

Using sty lus p en to Pre ss <Po wer> Button a nd < Reset> Button s imultaneously, the system will restarting again after the screen turns off shortly.

#### [Hard Reset Result]

- System will be restarting.
- Operating System (Windows CE) will be loading and restarting.
- Desktop will appear in about ten seconds.
- Time and date window will be popped up and need to reset it.

#### 2.3 In itializing System

Enter [Boot Menu] and do what you want, when in the situations as below:

- 1. When you need to restore the original registry information, which has been changed.
- 2. When you need to initialize "My device" storage spaces.
- 3. When you need to initialize "Flash Disk" storage spaces.
- 4. When you need to initialize system to factory default settings.

You can also press <Po wer> button and <F un> button simultaneously, and then press <Reset> button to perform **Hard Reset**.

[Boot Menu] window would appear in a couple of seconds.

#### Warning!

Except for [Clean System], please do not use other functions. The system might be work not properly if you use other functions on the [Boot Menu].

[Boot Menu]	[Boot Menu]
0. Firmware Upgrade	
1. Clean(Without Flash)	**** WARNNING ***
2. Clean(With Flash)	Your Information
3. Exit	Will be erased!
	Back : <- BKS
Menu Select : Enter NO.	Erase : Enter

Using<1>, <2> buttons to select Clean System, then press <Enter> button.

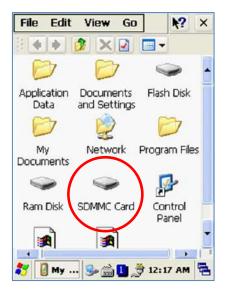
- **0.** Firmware Upgrade OS Update
- 1. Clean(Without Flash) Initializing "Mydevice" region.
- 2. Clean(With Flash) Initializing to factory default settings.
- 3. Exit

# 3. Using Micro SD Card

The image as below is battery compartment of AT280, and there are 1EA SIM Card Slot, 1EA SAM Card Slot(Option) and 1EA Micro SD Card Slot.



You can find the Micro SD Memory Card icon when executing the file explorer, after the Micro SD



# 4. System Settings

#### 4.1 S etting Brightness

Brightness is already set 80% at the factory, and brightness is the biggest consume part of the power, so you might need to adjust it to your actual need.

#### [Setting Brightness]

#### 1. [Start Button] -> [Setting] -> [Control Panel] -> [Brightness] 2. [MyDevice] -> [Control Panel] -> [Brightness]

밝기: Enable you to adjust brightness.

끄기: Enable you to adjust the timing of turning off brightness. 키램프: Enable you to adjust the timing of turning off key lamp.

market and			s	
Brightn	iess [	Timeout	Key Lamp	
AC	_			
Set h	rightr	ness on A	nower.	
USC D	ngnu	1000 OT 11	c power	
-	<b>r</b>			+
		100	) U	
		100		
Patto	ru			
Batte	1			
	1	ness on ba	attery pow	/er.
	1	ness on ba	attery pow	ver.
	1	-0	attery pow	ver. +
	1	ness on ba U 50	attery pow	ver. +
	1	-0	attery pow	ver.
	1	-0	attery pow	ver. +
	1	-0	attery pow	ver. +

#### 4.2 Sc reen Calibration

At first beginning of using the device after purchasing or need to use the device for a long period time, if you cannot select the place where you touched with stylus, you need to reset the coordinate calibration values.

#### Touch screen calibration [Start Button] -> [Setting] -> [Control Panel] -> [Stylus] -> [Calibration] -> [Recalibration]

Stylus Properties       Image: Calibration         Double-Tap       Calibration         If your device isn't responding properly to your taps, you may need to recalibrate your screen.         To start the recalibration process, tap Recalibrate.         Recalibrate	ess and briefly hold stylus on the center of : peat as the target moves around the scree Press the Esc key to cancel.
都 🔋 Sty 🥪 🚔 🚺 🍠 12:19 AM 🖷	

Press and hold stylus pen briefly on the center of cross symbol, and repeat 5 times as it moves around the s creen. The screen counts 30 sec onds a fter ca librating, and y ou can finish the recalibration to t ouch s creen wherever you want, if you donot any a ction, the s creen will automatically finish the recalibration of itself.

#### 4.3 Setting Volume and Sounds

Volumes is already set 80% at the factory, and you can readjust you need volume at control panel ->"Volume and Sounds"

#### Setting Volume and Sounds

[Start Button] -> [Setting] -> [Control Panel] -> [Volume and Sounds]





#### 4.4 Setting Data and Time

[Start Button] -> [Setting] -> [Control Panel] -> [Date and Time]



S         M         T         W         T         F         S           26         27         28         29         30         31         1           2         3         4         5         6         7         8           9         10         11         12         13         14         15           16         17         18         19         20         21         22
2 3 4 5 6 7 8 9 10 11 12 13 14 15
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29 30 31 1 2 3 4 5
12:22:12 AM
Zone
T-08:00) Pacific Time (US & C

Double Click the year, and click the up and down arrow button to set year.

ate/Time	
January	
February	WTFS
March	29 30 31
April	5 6 7 8
and the second	19 20 21 22
May	26 27 28 29
June	2 3 4 5
July	80 AM 🕂
August	
September	
October	cific Time (US & Car
November	adjust Apply

#### Setting Month:

Double Click the Month or Click L/R arrow button to set Month.

Date	/Tim	L	Maro	ch 2	011	1	•	1
	1000	M 28 7 14 21 28 4	T 1 8 15 22	2 9 16 23	T 3 10 17	F 4 11 18	5 12 19 26 2	
Time	Zor	ie		2 AN		(1)5	-	ar 🔽
P A	lock	nation for	cally dayli	adju aht :	ist savin	a [	App	ly

#### Setting Time:

Click AM/PM, Time area directly, using up and down arrow button to set Time.



#### Setting Day:

Click the day directly to set day.



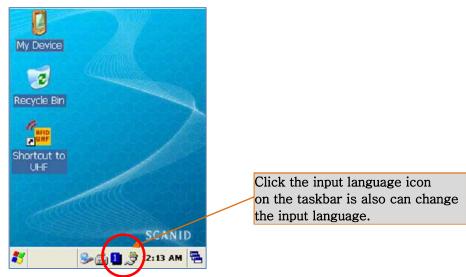
Setting Time Zone: Click up and down arrow direction to select time zone and click apply button.

# 5. Using keypad

Keypad enables you to input numbers, alphabets and special symbols. And can also execute other set function with <Fun> button.

#### 5.1 Us ing keypad

If you'd like to change the current input language, can press **<ALP>** button as below steps:



#### [Numeric] -> [Lowercase] -> [Uppercase]

#### 5.2 I nputting Data

**Numeric Keypad Mode**: Press< **ALP** > button or keypad icon on the taskbar to change to the numeric mode and directly press number on the keypad.

Alphabet Keypad Mode: Press <ALP > button or keypad icon on the taskbar to change to the Lowercase or Uppercase and directly press alphabets or special symbols on the keypad. Each button has 2 ~ 3 letters or symbols. Press the button once, the first letter or symbol will be inputted, press twice continuously, then the second letter or symbol will be inputted, and the third letter or symbol need to press button three times continuously.

#### 5.3 Usi ng <Fun> Button

Press <Fun> button and other buttons simultaneously can activate functions as below:

Fun + button	Descriptions
<1>	Enable you t o canc el th e se lected co mmand or th e pro grams operating or state.(ESC)
<up>, <down></down></up>	Enable you to increase or decrease the sound.
<3>,<5>, <4>, <9>	Enable you to perform page Up or page Down and HOME
<6>	Enable you to delete a letter which located after the cursor.(DEL)
<7>, <2>	Enable it has Tab button function and Space button function.
<*>,<0>,<#>, <8>	Enable you to input <+> <000> <-> symbols.

#### 6. Using stylus

You can tie the stylus to the hand strap hole, so that enable you to use the stylus as like a mouse on a PC



#### Use Stylus to:

- Select a letter on the soft keypad.
- Select a program on the desktop or taskbar.
- Select button, zone or tab bar in a window box or program.

#### 🗢 Caution:

Please do not use sharp objects on the touch screen. Use only supplied stylus, otherwise would bring seriously damage to the touch screen.

# 7. Using ActiveSync Program

ActiveSync p rogram could synchronize be tween the PC and PDA device, so that enable you to perform program installing, copy, transition, delete and so on operations.

#### 7.1 Installing Microsoft ActiveSync Program

Download the latest version of ActiveSync program from Microsoft **Windows CE.** Website, and install it to your PC.

ActiveSync: Windows XP Download Address: <u>http://www.microsoft.com/downloads/</u>.

#### Caution:

You must use ActiveSync v3.7 version or above.



Click [Next] Button.



Designate installation folder, then click <Next> button.

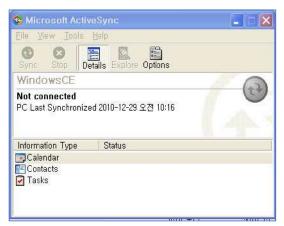


The installation was finished, and then uses the USB cable to connect to the USB port on the computer; ActiveSync will automatically detect the device connection.

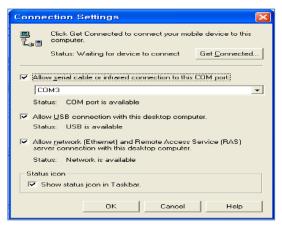
#### 7.2 Connecting PC to PDA

#### Setting PC

[Start button] -> [Programs] -> [Microsoft ActiveSync]



Executing Microsoft ActiveSync program



Select <Allow USB connection with this desktop computer>, press OK button.

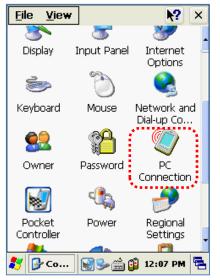
	vnchreni op	ze		plore Options	
Ex	obile De oplore elete Par		•		0
	et Conne onnectio		gs		
C	ose			15	

Click [File], Click [Get Connected].

😵 Microsoft ActiveSync					
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> e	alp				
Sync Stop Detai	Is Explore Options				
WindowsCE					
Connected 15 items not synchronized					
Information Type	Status				
Calendar	Synchronized				
goalondar					

ActiveSync connected to PDA

#### Setting AT280 PDA [Start Button] -> [Setting] -> [Control Panel] -> [PC Connection]



Double click PC Connection icon



To check if set to connected to USB Sync cable

#### 7.3 Transmi tting Data

Connect USB cable to PC or Device.



You can check the ActiveSync connecting state on the taskbar.

#### < Windows XP >

- 18	Windows Messenger
3	Windows Movie Maker
ß	Acrobat Distiller 9
X	Adobe Acrobat 9 Pro
Lc	Adobe LiveCycle Designer ES 8,2
۲	Microsoft ActiveSync

Start button/Programs/Microsoft ActiveSync



After ActiveSync connected, click Explore button.

		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	:음말( <u>H</u> ) • 🥑			
주소(D) 🔋 Mobile Devi	CD		1 100		v	-) 0
		Name 🔺	Size	Туре	Modified	
2010.012				ING 출연		
기타 위치	8	😂 88 프로그램		II일 출터		
및 바람퓨터		Documents an		파일 풀던		
A W BM		🛅 Flash Disk		파업 좀더		
		🛅 My Documents		파일 졸더		
🙆 공유 문서		🔁 Program Files		파일 졸더		
🦉 내 비트워크 환경		🛅 Ram Disk		다일 출터		
	_	Recycled		11일 출터		
-	147	🔁 Temp		11일 출터		
자세히	۲	🗃 Windows		파일 풀더		
		河제머관	23 bytes	바로 가기	2010-10-01	23
		RSSI Test, exe	15,0KB	응용 프로그램	2010-12-28	오후
		TE LHF, exe	74 BKB	응용 프로그램	2010-12-29	89

Designate transmitting file path.

Copy & Convert to mobile device format	×
Test	
Conversion (None)	
Copying (from '[013].SIXX_TESTSHEET_proram' to '\')	
[Cancel]	

Transmit files.

# 8. Firmware Upgrade

[Start Button] -> [Setting] -> [Control Panel] -> [Firmware Upgrade]



urrent Ver.           DOT:           BOOT_203256CE5_0210_S0           S:         OS_CE50203ENGSTD_0214_S0           Iles Ver. In Storage           DOT:           S:           elect Files to Upgrade           ISK           BOOT           Iash Disk
S : OS_CE50203ENGSTD_0214_S0 les Ver. In Storage DOT : S : elect Files to Upgrade ISKBOOT UPGRADE
les Ver. In Storage DOT : 5 : elect Files to Upgrade ISKBOOT UPGRADE
DOT : 5 : elect Files to Upgrade ISKBOOT UPGRADE
5 : elect Files to Upgrade ISKBOOT UPGRADE
elect Files to Upgrade
ISK BOOT UPGRADE
urrent Version Reading Success!!
~
/ 🚑 Fw 🌭 🚔 🚺 🏓 12:24 AM 🖣

# **Chapter4. Optional Module**

AT280 provided variety of optional modules and in this chapter will provide you the information of each module.

#### Optional modules as below:

- 1. B arcode Scanner
  - -. 1D Laser Barcode Scanner
  - -. 2D Imager Barcode Scanner
- 2. Wireless LAN 802.11 b/g
- 3. B luetooth

### 1. 1D or 2D Barcode Scanner

AT280 enable to equip with a compact image engine, which could recognize all the 1D and 2D barcodes.

#### 1.1 Scanning Barcode



Start Button/Programs/Demo Apps/Scanner/BarcodeDemo

BarcodeD	emo		ОК 🗵
SCANNER			
C [123456 C [033029 C [Code 1: C [123456	b:7], [Co -9\$:9], [ 0959:10 28:8], [C 7890:10	e 39:7] odabar:7] (Code 93:7] ], [Bookland E ode 128:8] ], [Interleaved 1), [UPC A:5]	
VALUE SYMBOL	01234 UPC A	567890	
00	allback	O Message	
STA	RT	CLEA	R
	rcod	<b> </b> 🥪 📾 🔂 😽	

Press Scan Buttons to Read Barcode.

#### 1.2 Setting Barcode Emulator

Barcode Emulator program enables you to set the barcode value input type, scan button, scan sound on and off so on, and could input the scan values to any program(such Web program, WordPad program so on) where located the cursor.

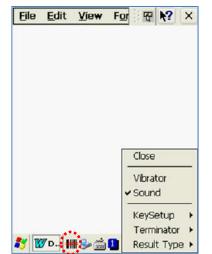
#### Executing Barcode Emulator [Start Button] -> [Program] -> [Demo Apps] -> [Scanner] -> [BarcodeEmulator]



Run Barcode Emulator Program



Barcode Emulator Icon will be showed on the taskbar.



Run WordPad Program, then click the Emulator Icon

Die	Edit	⊻iew	For	Ŧ	<u></u> *?	×
				Close	/1	_
				Vibrai Soun		
	Kevboa	rd Event	-	Soun KeySi	d	, ,

#### Result Type

Keyboard Event: Barcode inputted one by one.

**Copy Paste:** Barcode will be stored be stored in clipboard and shown at paste way.

File	<u>E</u> dit	View	For	쮻	N?	×
97803	3029095	i				
97803	3029093	5				
97803	3029093	5				
97803	3029093	5				
97803	3029095	9780330	12909.	5		
97803	3029095	9780330	2909	5		
97803	3029093	9780330	2909.	5		
97803	3029095	978	03302	9095		
	9780	13302909	5	97803	302909	95
	9780	3302909	5	97803	302909	35
	9780	3302909	5 _	97203		25
	9780	13302909	597	Close		
33029	0959780	13302909	597 -			_
33029	0959780	3302909	597	Vibra	tor	
33029	095	<ul> <li>None</li> </ul>	~	Soun	d	
		CRLF	-   -	KeyS	etup	,
		Space		Term	inator	Þ
<b>7</b>	7D.	Tab		Pocul	t Typ	-

#### Terminator

None:Not input terminal barcode value. CRLF: Barcode value will include an "Enter" Space: Barcode value will include a "Space" Tab: Inputting type as same as Tab Key Function.

Eile	<u>E</u> dit	⊻iew	For	- PP	N?	×
97803	3029095	6				
97803	3029095					
97803	3029095					
97803	3029095					
97803	3029095	978033	029095	,		
97803	3029095	978033	029095	i		
97803	3029095	978033	029095	1		
97803	3029095	978	03302	9095		
	9780	3302909	5 1	97803	302909	25
	9780	3302909	5 1	97803	302909	25
	9780	3302909	-	7202		15
	9780	3302909	597	Close		
33029	0959780	3302909	597 -			
33029	0959780	3302909	597	Vibra	tor	
33029	095		~	Soun	d	
			-			-
				KeyS	etup	+
				Term	inator	• •
	7 D 🕄	E	-	Resul		

Sound: Set sound ON/OFF after scanned barcode Vibrator: Set vibrator ON/OFF after scanned barcode Close: Exit Emulator Program

Eile	<u>E</u> dit	⊻iew	For	<b>.</b>	N?	×
97803	3029095	(			-	_
97803	3029095					
97803	3029095					
97803	3029095					
97803	3029095	9780330	2909.	5		
97803	3029095	9780330	2909	s		
97803 33029	3029093 3029095 9780 9780 9780 9780 9780 9780 0959780 0959780 0959780	F3 F4 F5		5 9095 97803: 977803: 977803: 977803: 977803: 977803: 977803: 977803: 977803: 977803003: 9778030000000000000000000000000000000000	302909 302909 tor	95
		F8	_	KeyS	etup	,
		✓ Gun1		Term	inator	•
<b>**</b> 🛙	7D. 🕄	✔ Gun2		Resul	t Typ	e 🕨

#### Key Setup

F1-F8 Key: Hardware Keypad Gun1, Gun2: Gun Trigger

#### 1.3 Setting Barcode Symbology

AT280 enables you to set the various barcode by using barcode symbologies program.

[Start Button] ->	[Program] ->	[Demo Apps] ->	> [Scanner] ->	[BarcodeSetup]
-------------------	--------------	----------------	----------------	----------------

My Device	2/
Recycle Bin	
🖬 Programs 🔹 🕻	Communication
👷 Fa 🗁 Scanner	IIII BarcodeDemo
🕒 Do 🗁 Summit	HI BarcodeEmulator
🕞 Se 🚺 BTManaq	💭 BarcodeSetup
🔗 He 📢 GPSDem	o rnet Explorer
🖅 Ru 🎇 Modem T	est ia Player
🔜 😴 WirelessL	AN psoft WordPad
	Windows Explorer

Run BarcodeSetup Program.

Scan2DSetup	OK 🔀
Symbology Selection	
Aztec	<b>*</b>
Aztec Aztec Mesa Codabar Code 11 Code 128 Code 39 Code 49 Code 93	
Enable All Symbolog	1.
🐉 📫 Scan2D 🎁 🎐 🚔	8 🚱 🖷

Set Barcode Type in detail.

ztec	
Set Enable	e Status
Default All Sy	mbologies
Disable All Sy	mbologies
Enable All Sy	mbologies

Click Set Enable Status button



Make a check mark on the barcode which you want to use, and then click <SET> button.

ec	-	l.
Set Enable	Status	
Default All Syn	bologies	
Disable All Sym		2.
Enable All Sym	bologies	7 <b>.</b> 3

#### 2D Symbology Selection:

- 1. Initialize all the symbologies to factory default value.
- 2. Unable to read all the symbologies.
- 3. Enable to read all the symbologies.

icani	iDSetup 🛛 🛛 🕅
ſ	Symbology Selection
	Set Enable Status
	Default All Symbologies
	Disable All Symbologies
	Enable All Symbologies
	General Setup
cann	er Open Succeed.
	er Open Succeed. 🏟 Scan ID   🥪 🚔 🚹 🗑 🍠 🖣

#### 1D Symbology selection:

- 1. Initialize all the symbologies to factory default value.
- 2. Unable to read all the symbologies.
- 3. Enable to read all the symbologies.
- 4. Set a level that enable to read more than two symbologies simultaneously.

#### Warning!

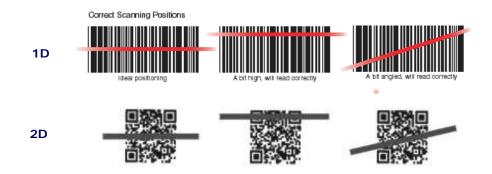
Please do not look directly into the laser beam of barcode, or it may do harm to your vision.

#### 1.4 Barcode Scanning Beam Position

- 1. Remove the protective film from the window of barcode.
- 2. Executing the BarcodeDemo program.
- 3. Emit laser beam to the barcode.
  - Adjust the distance according to the size of barcode.
  - Barcode will stop automatically in five minutes if out of the Barcode reading range.

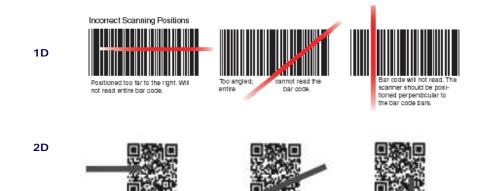
#### [Correct Scanning Beam Position]

- 1. The more small size of barcode, AT280 needs the more close to barcode. The effective scanning rang of Si303 is from 40 ~ 300mm. if failed to scan barcode, please try to adjust scan angle and distance.
- 2. The laser beam is a red thick line, when scanning a barcode.



#### [Incorrect Scanning Beam Position]

- 1. The laser beam must across the barcode.
- 2. It will couldn't scan barcode if the laser beam across only a fraction of barcode.



# 2. Using Wireless Lan

AT280 enable to equip an internal 802.11 radio module to transfer data and do wireless communication. AT280 supports TCP/IP network protocol, and communicate with a host computer directly.

### 2.1 Connecting to Wlan

[Start Button] -> [Program] -> [Demo Apps] -> [Wireless Lan]



Run the Wireless LAN program.



Select <WLAN ON>, and then click Ok button.

#### 2.2 Setting Wlan Manually



Double click a suitable device from the list of AP.



Input Key Password, and then click OK button.

#### 2.3 Checking WLAN Information





Double click WLAN icon on the taskbar to check Wlan information.

Start Button/Programs/ATID App/Wireless Lan, and then select <WLAN OFF> to stop Wlan communication.

Note: The Wlan LED will changed to green and the Wlan icon on the taskbar will be lighted on will be light off killed the Wlan icon will be light off

# 3. Using Bluetooth

This User Guide is only applied to the AT280 which installed "MD6RF" module.

AT280 not only supports to the SPP printer device like as AT870/AT570, but also supports Bluetooth Stack Service of Windows CE. This Chapter described how to Pairing and Disconnecting between PDA and Bluetooth devices, and also described basic testing method of Mobile Printer SPR-R203, which launched by Bixolon, as a sample device.

#### 3.1 Bluetooth Beginning and Closing

AT280 is using Stack of Windows basically, only could control the power of Bluetooth Module's ON/OFF.

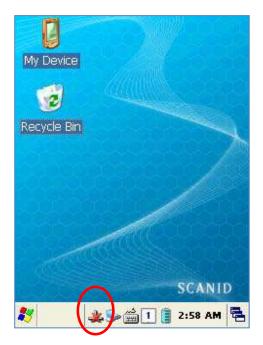
- 1. Blueto oth Function Beginning
  - A. Executing the "Bluetooth" demo program. WinCE Start->Programs->Demo Apps->Bluetooth.



B. Select "Bluetooth ON" item, then press OK button.



C. After Bluetooth executed, the Bluetooth BTPAN1 icon will be appeared on the bottom of Windows Taskbar, and the red cross mark on it shows that you access is available and prepared to be accessed.



- 2. Blueto oth Function Closing
  - A. Executing "Bluetooth" demo App from Windows CE Menu.



B. Select "Bluetooth OFF", then to press OK button to off the Bluetooth power.

My	Device			
RE	Juetooth Set Blue	Power tooth power Bluetoo	th ON	
27	Blue		SCANID 2:33 AM	

#### 3.2 Bluetooth Pairing

After connecting each o ther throu gh pairing way, Bluetooth d evices cou ld do its function properly.

1. Executing Bluetooth program as below path. Start->Settings->Control Panel->Bluetooth Device Properties

<u>File View</u>	·	<b>№</b> ×		File View
Ø,	Ì	8		Bluetooth Manager ? OK X
AudioCodec	Backlight	Bluetooth Device		
0	Capped	Properties		
Certificates	CPU Clock	Date/Time 🗕		
Ð		8		
Device	Dialing	Display		
Management		<u>a</u>		
15	Eun	- 🗶 -		Scan Device
Firmware	Function Key	Input Panel 📋		
🐉 🔂 c	🙏 🦫 🚔 🚺	🧻 3:06 AM 🔁	->	鸄 🔇 B 🏨 🌫 🚔 1 🏮 3:06 AM 🖷

2. Press "Scan Device" button to searching devices which could pairing.

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Scan	Device				_
		<u>S</u> top			
					_
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3. Depending on the situation, maybe need to input password for some devices, then could search devices continually.

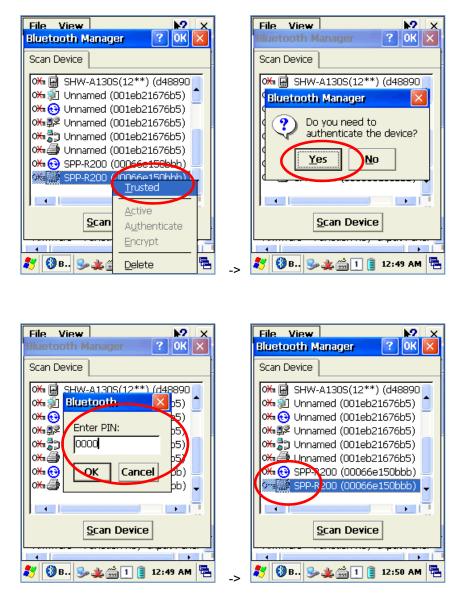
Authentication Request	×
SPP-R200	
Enter FIN: 0000	576ł
<u>Stop</u>	•
	ъ. С
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- \*\* According to the devices need, some devices have to input Pin Code (password) firstly.
- \*\* SPP-R200 printer factory setting Pin Code is "0000".
- 4. The devices which can connect will be listed, after finished searching.

File View		▶2	X
Bluetooth M	anager	? OK	$\times$
Scan Device			
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o <del>⊼</del> n ∰ SPP-R	200 (00066e:	150666)	
	Scan Device	]	
		1.	
🐉 🔇 в 🍛	😃 🏛 🚺 🔋	12:48 AM	12

\*\* If c annot find your need device, please press "Scan Device" button to sea rching your device again.

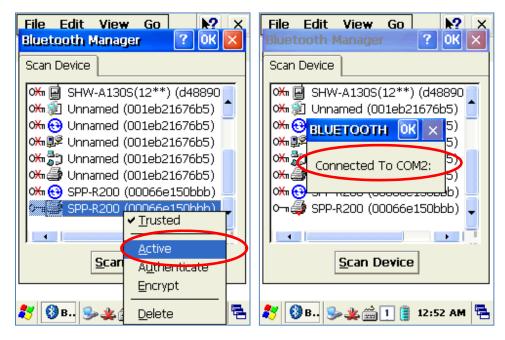
5. Double click you r device name, click "Trusted" Tab to ad d the device to the pairing items, then click "Yes" button to ending the Bluetooth Manager.



\* You can set the Password (Authentication code) according to the each device.

\* The Red Cross mark(X) on the Key icon will disappear if finished to registration.

6. Click "Active" button to active the paired device.



- 7. Then, you can perform the data communication through COM2 Port.
- 8. After pairing and active the Bluetooth device, you can use the Device driver, S/W, and SDK, which provided from the Bluetooth device manufacturer, to perform the relevant Bluetooth function.

#### 3.3 Bixolon SPP-R200 Printer Demo

SPP-R200 is ty pical Mobile Printer of the Bixolon, you can using its App which get from Bixolon website to perform print through Bluetooth.

\*\*the Printer program and SDK, which described in this User Guide is based on the 5<sup>th</sup> Aug, 2011, and it's would be a little different from homepage contents according to the Bixolon policy.

- 1. Download "SPP-R200 Windows SDK" from the Bixolon homepage (<u>www.bixolon.com</u>) to a suitable directory and unzip the file.
- 2. Bluetooth Power ON.
- 3. Executing "Bluetooth Device Properties" programs which located in Control Panel.
- 4. SPP-R200 printer power ON.
- 5. Setting the SPP-R200 printer to be in the status of pairing. (Please refer to the User Guide of SPP-R200 Printer)
- 6. Press "Scan Device" button to searching printer device nearby.
- 7. In the status of pairing, the factory setting password is "0000" usually.
- 8. If c onnected success fully, "COM 2 port connected" message will be c onfirmed. (If had connected one time, maybe not show the message.)
- 9. Copy and paste the DLL and execu table file, which lo cated at bin\ce5\MobileCompia\_M3Plus\ within the printer SDK, to Si303 Flash Disk.
- 10. Executing the Sample.exe program in the SI303 Flash Disk.

Sample	ок 🔀	
「Select Port ——		
COM8:19200		
ex) COM1:, COM	4:19200, BSP2:	
Open	Close	
Function		
Printing	MSR	
Status	Etc	
Exit		
教 🕵s 🜲 🍉 🎰	1 🔋 12:08 AM 🖶	

11. Change the COM8 to COM2, then press "Open" button to testing printer.

File Edit View	Go 💦 🗙
Sample	ок 🔀
COM2:19200	
ex) COM1:, COM	4:19200, BSP2:
Open	Close
Function —	]
Printing	MSR
Status	Etc
Ex	it
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# **Chaptor5. Appendix**

# Specification with AT280

Physical and Enviro	onmental Characteristics		
Dimension	53.5mm(L) X 146.9mm(W) X 32.2mm(H)		
Weight 320g			
Operation Temperature	-10°C ~ 50°C		
Storage Temperature	-30 °C ~ 60 °C		
Humidity	Non-condensing		
Drop	1.5m drop to concrete		
Performance Chara	cteristics		
Processor	Marvell™ PXA320 806MHz		
Operating System	Windows CE 5.0		
Memory	ROM 256MB (Max. 512MB) / RAM 256MB		
Disalar	2.4" QVGA with Backlight, TFT LCD, 240*320 Pixels, 262,144 Color		
Display	Stylus Touch Screen Interface		
Audio	Phone Receiver, Earphone Jack		
Communication Port	RS-232Serial Port, USB 1.1		
Expansion Slot	1 Micro SD Slot (SDHC Support)		
Keypad 25ke	у		
Notification	Vibrator and LED		
Power Supply			
Main Battery	Lithium ion 3.7V Above 3,000mAH(rechargeable) Up to 4,400mAH(Option)		
Backup Battery	Lithium Polymer 3.7V, 100mAH(rechargeable)		
Adaptor	Input AC100V ~ 240V Output DC5V 3A		
Network Character			
Wireless LAN	WLAN(802.11 b/g compliant)		
Bluetooth	Class II, v2.1 EDR		
Antenna	Internal LAN & WAN		
Data Capture Device	es		
Barcode Engine	1D Laser Scanner, 2D Image Scanner		