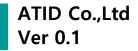


ATS200 USER GUIDE





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Before the Beginning

The objective of user guide is to pass the basic contents related with **ATS200**'s maintenance and smooth uses. User guide inclusive of text, images, logos, product name may not be distributed, modified, displayed, reproduced (in whole or in part) without the prior written permission of **ATID Co,.Ltd.** Furthermore, the described contents in this document are subject to change without notice for improving or maintaining the product and we inform the user that some material can be different with the described contents due to the firmware changes of product.

Ownership of text, images, logos, product name in user guide is included in writer and some parts of text, images, logos, product name in the user guide were borrowed for user's understanding at random. if there is a legal restriction such as a copyright law, it will be redistributed after adjustment.

Product Overview

ATS200 is a SLED-type barcode/RFID reader product. This product meets the basic performance of industrial products that can be used in waterproof/dustproof/dustproof and 1.5m drop tests above IP65 and can be used as data collectors in various fields, including medication management, inventory management, logistics delivery/tracking, production and access control.

This product can collect 1D/2D barcode and UHF RFID Tag information from one device. The collected data can be sent to the Host device via Bluetooth or USB transfer. SDK is supported for easy processing of collected data on host devices with Windows, Android, and iOS.

Key Features

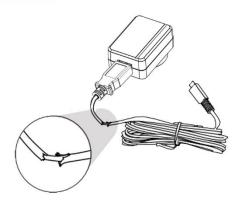
- 1) This product is an SLED type barcode/RFID reader.
- 2) The host device can be fixed on the top of the product using the double-sided tape included in the device, and communication is possible with a USB Type-C to USB Type-C cable.
- 3) It is a durable industrial product that meets IP65 and 1.5m drop standards.
- 4) Zebra (formerly Motorola)'s SE4710 barcode engine is adopted, enabling fast and accurate barcode data collection.
- 5) R2000 module from Impinj is built in, so UHF RFID Tag can be read-written.
- 6) 1 dBi Circular Polarization antenna is applied, so it is easy to read tags from a long distance regardless of direction.
- 7) Using a USB Type-C Cable, data communication and charging are possible by connecting to a PC.
- 8) Even without a dedicated charging adapter, it can be charged using a regular smartphone charger.

Before Use

- Be sure to read and use safety precautions before using them.
- If there is any problem or inconvenience during use, please contact your dealer or place of purchase.
- Please ensure that the following is used more safely and correctly to prevent accidents and physical damage.
 - The user is responsible for any injury caused by the user who did not follow this instruction, so please be sure to observe it.

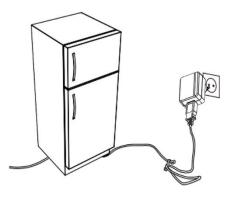
1. Precautions for Charging

1) It is very dangerous to use a charger with a 2) Do not bend the power cord too much or damaged cord, so please replace the charger with a new one.

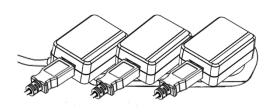


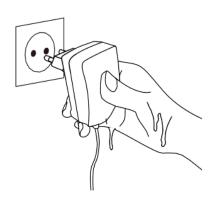
3) Do not plug multiple power outlets at the 4) Do not touch the power plug with wet hands same time. (This may cause a fire or electric shock.)

keep it pressed by heavy objects.



or pull the cord out. (This may cause electric shock and short circuits.)



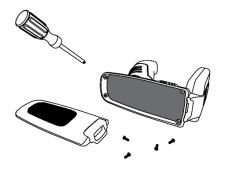


2. Precautions for Use

 Wipe the surface of the product lightly with a dry towel, and do not use chemicals or cleaning agents as they will deteriorate the surface and peel off the paint.



- Do not spray water directly on each part of 4) the product during cleaning. (This may cause a fire, electric shock, or failure.)
- Do not modify, remove, or repair it e arbitrarily. We are not responsible for any accidents caused by it.



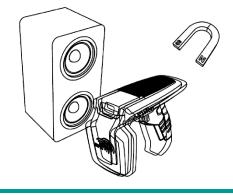
 Avoid high temperatures such as direct sunlight and near heating appliances. If the product or charger smokes or smells strange, stop using it immediately and contact your dealer or purchaser. (This may cause a fire or electric shock.)



) Do not use in places where there is a lot of moisture, dust, or soot. (This may cause a fire, electric shock, or failure.)



 Keep away from home appliances, vibrations, or magnetic types. (This may cause product malfunction.)



ATS200 User Guide

3. Other Cautions and Notes

1) Notes on handling

- Do not use highly volatile substances such as insecticides near this product.
- Be careful not to leave rubber or plastic products in contact with this product for a long time, as marks may be formed.
- If the product is used for a long time, the product may generate heat, but please rest assured that this is not a malfunction.

2) Precautions for using Lithium-ion Batteries

- This product uses a Li-ion battery.
- The lifespan of the battery varies depending on the period of use and usage, and the usage time gradually shortens after purchase.
- When not in use for a long time, fully charge the battery about once every 3 months and store it separately from the product.
- The warranty period of the battery is 6 months from the date of shipment. Batteries are consumables, so if any problems arise during use, please contact the place of purchase.

3) Provision of delivery charges related to initial defects and repairs

- Initial defect (15 days after receiving the product) : ATID bears the return shipping cost.
- Within the free repair period (excluding product damage) : One way is borne by our company.
- Paid repair period (after the warranty period) : The customer bears the return shipping cost.

4) No fast charger available

A/S is not available for problems that occur when using the fast charger.



Since the radio equipment may interfere with radio waves, this device cannot provide services related to human safety.

Product Specification

Perform	nance			
Processo	or	ARM7 Core		
Supported Platforms		Windows, Android, iOS (BLE Only)		
Internal Storage		-		
Physical Characteristics				
Dimensi	ons (W x L x H)	76.1 x 173.7 x 139.8 mm		
Weight		420g (With Battery)		
Power		5,200mAh Lithium-Ion Battery (Rechargeable)		
Display		-		
USB Inte	erface	2 USB Type-C Port (Charging, Data Communication / Host Connection)		
Notificat	ion	LED Indicator, Buzzer, Vibrator		
Data Co	ollection			
	Protocol	EPC GEN2, ISO/IEC 18000-6C		
	Reading Range	~ 6m (Depending on environment and tag type)		
	Writing Range	~ 0.5m		
	RF Output	1W (MAX)		
RFID		US / FCC : 902MHz ~ 928MHz		
(UHF)		EU / CE : 865MHz ~ 868MHz		
	Frequency Range	KR / KC : 917MHz ~ 921MHz		
		JP / TELEC : 916MHz ~ 921MHz (1W)		
		: 916MHz ~ 924MHz (0.25W / Optional)		
	Antenna	Circular Antenna / 1dBi		
Barcode		2D Engine (Support to read 1D & 2D Barcode)		
Comm	unication			
Bluetoot	h	BT V2.1+EDR / BLE V4.1		
WLAN		-		
User Environment				
Operating Temp		-20°C to 50°C		
Storage Temp		-30°C to 70°C		
Charging Temp		0°C to 45°C		
Humidity		5~95% (non-condensing, +25°C		
Drop Spec		1.5m		
Sealing		IP65		

Configuration of the product

1. Product Components



Product Body



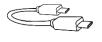
Gun Handle (Built-in Battery)





USB Cable (Type-C)

Hand Strap



USB Type-C to Type-C

 \bigcirc

Double-sided tape



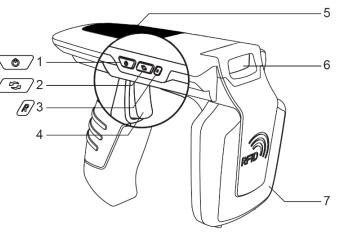


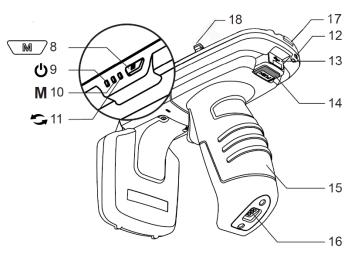
Cradle

Charging Adapter

2. Name of each part

- 1 : Power Button
- 2 : Communication Mode Switch Button
- 3 : Reset Button
- 4 : Trigger
- 5 : Top Cover
- 6 : Barcode Scanner
- 7 : RFID Antenna
- 8 : Barcode / RFID Toggle Button
- 9 : Charging LED
- 10 : Barcode / RFID LED
- 11 : Communication Mode LED
- 12 : Hand Strap Connection Hole
- 13 : USB Port (Type-C)
- 14 : Gun Handle Release Button
- 15 : Gun Handle (Built-in Battery)
- 16 : Cradle Connection Terminal
- 17 : Top Cover release button
- 18 : Cable Holder





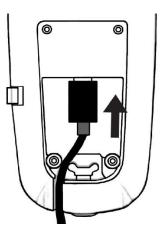


Host Device Installation

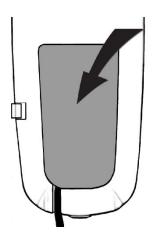
USB Cable Connection 1.

- 1) If you lift the top cover while pressing the 2) Connect the host connection cable included button on the back of the product, the top cover will be removed.
 - 0 Aŭd Ċ٦

with the product to the exposed USB port when the Top Cover is removed as shown below.

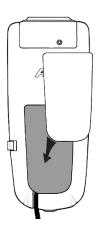


3) After completing the USB cable connection, reattach the Top Cover.



2. Smartphone Mounting

Attach the double-sided tape included with 2) Attach the smartphone to the top of the the product to the Top Cover.
 device.





3) Connect the USB cable to the smartphone USB connection port.





The USB cable does not need to be connected unless charging or data communication via the USB port is desired. Please decide whether to connect or not according to the environment of use.

Removing and Installing Gun Handle

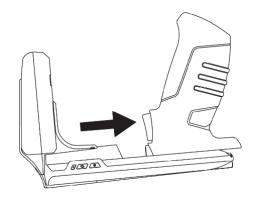
1. Removing the Gun Handle

1) Press the gun handle release button.



3) Pull the gun handle up.

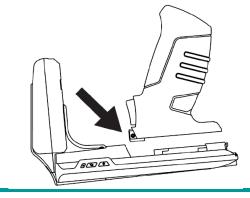
2) Push gun handle back.

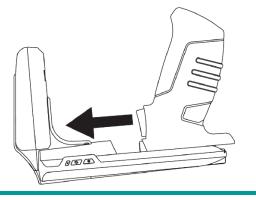




2. Installing Gun Handle

- 1) Attach the gun handle to the **ATS200** body.
- Install the gun handle by sliding it forward. (The button with 'PUSH' written on it with a click sound must come up to ensure it is properly installed.)

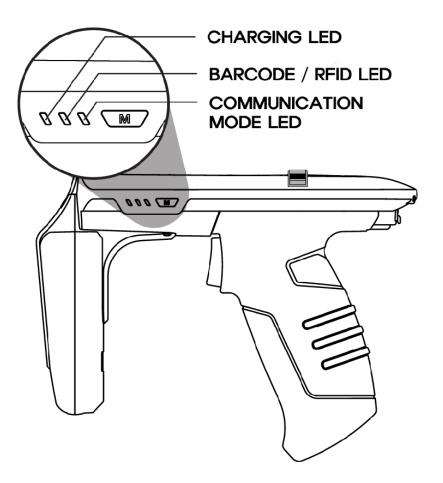




LED Indication by status

ATS200 displays the current device settings or status as shown below with LED operation.

LED	Action	Function
	Blinking Red LED	Low Battery
Charging LED	Red LED On	Charging
	Green LED On	Full Charging
	Blue LED On	Barcode Mode
Barcode / RFID LED	Blinking Blue LED	Trigger Input Mode
	LED Off	RFID Mode
Communication Mode LED	Blinking Green LED	Bluetooth Mode
	Blinking Red LED	USB Mode



Button Operation

1. Power On

- 1) Turn on the power by pressing the power button \bigcirc until the buzzer sounds.
- 2) If the communication mode LED blinks after the buzzer sounds, the power is on.



If the gun handle has been disassembled and reassembled, the instrument will not power on immediately when the power button is pressed. This is not a malfunction, but a procedure to check the battery status when first connecting the battery. In this case, if you hold down the power button longer than normal, it will power on normally.

2. Power Off

- 1) If the power button is pressed while the power is on, the power is turned off.
- 2) If the communication mode LED turns off after the buzzer sounds, the power is off.

3. Data Communication Mode Setting

- 1) Press the communication mode switch button sequentially switch between 'Bluetooth data communication mode' and 'USB data communication mode'.
- 2) It takes about 2~3 seconds to change data communication mode.

4. Switch Barcode / RFID Function

Each time the Barcode/RFID toggle button *m* is pressed, the 'Barcode', 'RFID', 'Trigger Input' mode is sequentially switched.



'Trigger input mode' is a mode in which the barcode or RFID reading function does not operate when a trigger signal is input and only the trigger signal is input to the host device.

Charging

1. Charge using the adapter

- 1) Plug the charging adapter into the USB port on the back of the **ATS200**.
- It is recommended to use an adapter of 5V / 2A or higher. Charging time will increase if you use an adapter with a low power output.



2. Charging with PC USB Port

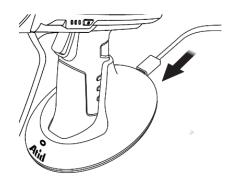
- 1) The device is charged even when a USB cable is connected for data communication with a PC.
- 2) In this case, it is charged at a low speed and if the device and the smartphone are connected, the smartphone is not charged.

3. Charging with Cradle

1) Attach the product to the cradle.



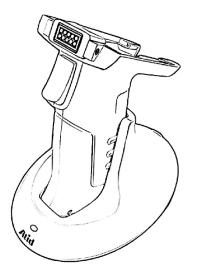
2) After connecting the USB cable to the cradle, connect it to the charger to start charging.



When charging in the cradle while the battery is connected to the main body, the charging LED on the main body indicates the charging progress.

4. Charging the Gun Handle

1) The gun handle can be charged in the cradle by itself.



- 2) It is recommended to charge with the supplied adapter (5V/3A). If you use an adapter with a low output, the charging time will increase.
- 3) When charging the gun battery, the LED on the cradle indicates the charging status as shown below.

LED	Action	Function
Cradle LED	Orange LED On	Charging
	Green LED On	Full Charging

5. Support for simultaneous charging of Smartphones

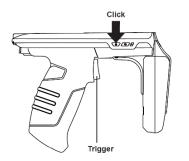
- 4) If the **ATS200** is connected to the smartphone through the host connection cable, the **ATS200** and the smartphone are charged at the same time.
- 5) In Android and Windows, communication with **ATS200** through USB port is not possible while charging.
- 6) If the ATS200 is charged while it is connected to the device, the charging speed will be slow.
- 7) Simultaneous charging is not possible when connected to a PC. If you want simultaneous charging, use a charging adapter.
- 8) This product does not support Quick Charge.

'Simultaneous charging of smartphones' may not be supported depending on the smartphone model.

Bluetooth Data Communication Mode Setting

1. Enter setting mode

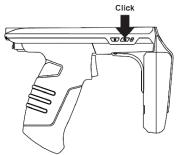
1) While pulling the trigger of the ATS200, press the 2) Press the communication mode switch power button to turn on the power.



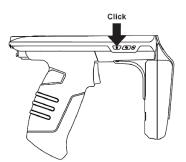
3) Each time you press the barcode/RFID toggle 4) After setting the mode you want to set, Button M , 'BLE/HID/SPP' mode is switched sequentially. Communication mode LED operates differently depending on the mode.



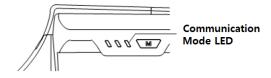
to set the communication button 537 mode LED to blink green. (set to Bluetooth mode).



press and hold the power button to complete the setting.



2. LED Indication for each Bluetooth Mode



1) Green LED blinks quickly	: BLE Mode
2) Keep Green LED on	: HID Mode
3) Green LED blinks every 2 sec	: SPP Mode

If the Bluetooth data communication mode setting is incorrect, it may not be able to connect to the iPhone, Android, or Windows Host device being used. Please pay attention to the settings.

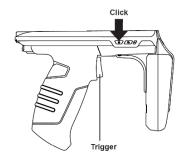


- iPhone can only be connected in BLE mode.
- For Android and Windows, SPP mode or HID mode can be used. However, in HID mode, the ATS100 main body cannot be controlled by the application.

USB Data Communication Mode Setting

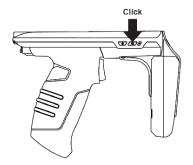
1. Enter Setting Mode

1) While pulling the trigger of the ATS200, press 2) Press the Communication Mode Switch the Power Button to turn on the power.

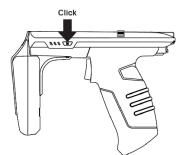


3) Each time you press the barcode/RFID toggle 4) After setting the mode you want to set, press Button M, 'BLE/HID/SPP' mode is switched sequentially. Communication mode LED operates differently depending on the mode.

Button *set the communication mode* LED to blink Red. (set to USB mode.)



and hold the Power Button to complete the setting.





2. LED Indication for each USB Mode



If the USB data communication mode setting is incorrect, it may not be able to connect to the Android or Windows device being used. Please pay attention to the settings.



- Connection with iPhone is not supported.
- For Android and Windows, SPP mode or HID mode can be used. However, in HID mode, the ATS100 main body cannot be controlled by the application.

Setting Mode by Scanning Barcodes

1. Functional Description

Bluetooth Data Communication mode (BLE, HID, SPP), USB Data Communication mode (VCP, HID), and System Default Settings can be easily set by reading the special barcode.

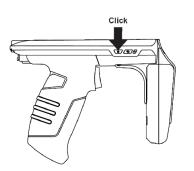


This setting mode is supported from firmware version 'ats-5.1.1.11'.

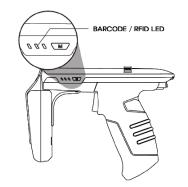
When setting with the USB cable connected, the device does not reset after setting.

2. How to set up

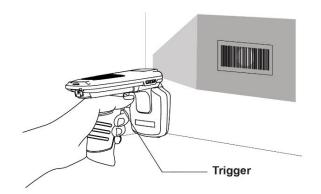
1) Press the power button to turn on the power.



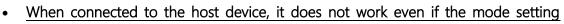
2) Press the Barcode/RFID Toggle Button to set to Barcode mode. (In Barcode Mode, the LED lights Blue.)



- 3) Aim at the barcode of the function you want 4) If the setting is completed normally, the to set and scan by pressing the trigger button.
- system is reset.



3. Mode Setting Barcode





barcode is read.

- When setting with the USB cable connected, the device does not reset after setting.
- 1) Default setting (BT-SPP, USB-VCP Setting)



2) Bluetooth Data Communication Mode Setting

Data Communication Mode	Setting Barcode
Bluetooth SPP	ATS100-BT-SPP
Bluetooth HID	ATS100-BT-HID
BLE	ATS100-BT-BLE

3) USB Data Communication Mode Setting

Data Communication Mode	Setting Barcode
USB VCP	ATS100-USB-VCP
USB HID	ATS100-USB-HID

Using Android Host Demo Application

1. Android Host – Bluetooth Connection

- Install the Demo Application (Hereinafter : Demo App) included in the provided SDK. 1)
 - In order to connect the Android Demo App and the device, the Bluetooth Data • Communication Mode of the device must be set to SPP mode.
 - Demo App for Android is available from Android version 4.2 Jelly Bean or later.
 - For the smooth operation of the app, it is recommended to use a device with Android • version 6.0 or higher.
- 2) Run the downloaded Demo App with the 3) Click 'Allow' on the next screen to activate the icon shown below.
- Bluetooth function of the host device.





4) Click 'New Device' from the menu that 5) Select 'BLUETOOTH' on the converted 'Regist appears when you click the ____ icon in the upper right corner.

ATID Reader SE	ATID Reader SE	New Device
legisted Devices	Registed Devices	About

Device' screen and click the 'Scan Device' button.

Regist Device					
BLUETOOTH	USB	BLE			
Paired Devices					
New Devices					
	SCAN DEVICE				

6) Connectable devices are displayed in 'New Devices'. If you click on the product, the device information is registered and you return to the previous screen.

Regist Device		ATID Reader SE	≡
BLUETOOTH USB	BLE	Registed Devices	
Paired Devices		ATS200-6967 00.04.3E 54.69%7	8
STOP			

6) Connectable devices are displayed in 'New 7) Touch and hold the licon of registered Devices'. If you click on the product, the device information.

Registed	
17	

- 8) Click the 'Connect' Button among the 9) When connected to the device normally, the activated menus.'Bluetooth connection request' window is
 - When connected to the device normally, the 'Bluetooth connection request' window is activated. Click 'Pair' to connect the **ATS200** to the host device.





2. Android Host – Bluetooth Disconnection

1) device, touch and hold the 👔 icon of the registered device on the 'Registered Devices' selection screen.

ATID Reader SE	
Registed Devices	
ATS200-6967 000438:54:6967	8

While the ATS200 is connected to the host 2) Click 'Disconnect' in the activated menu to disconnect the connection between the host device and the ATS200.



3. Android Host – Remove Bluetooth Connection Information

1) While the ATS200 is connected to the host 2 device, touch and hold the 👔 icon of the registered device on the 'Registered Devices' selection screen.

2)	Click 'Delete' in the activated menu to delete
	ATS200 device registration information.

legisted Devices		
ATS200-6967 00:04/3E:54/69/67	(•



Even if the connected device is deleted from the app list, it is not removed from the Android device's Bluetooth connection list.

4. Android Host – USB Connection



The device must have USB data communication mode set to VCP mode in order for the demo app for Android and the device to connect to the USB port.

1) Connect the USB cable for host connection 2) Click 'New Device' from the menu that is to the smartphone USB port.



activated when you click the 🧮 icon in the upper right corner.

TID Reader SE	ATID Reader SE	New Device
egisted Devices	 Registed Devices	About

3) On the converted 'Regist Device' screen, 4) Connectable devices are displayed in the select the 'USB' menu and click the 'Scan Device' button.

SCAN DEVICE

'New Devices' item. If you click on the product, the device information is registered and you return to the previous screen.

	Regist Device ATID Reader S	: =
BLE	BLUETOOTH USB BLE Registed Devices	
	Any #A	SBSerial
	? AT91USBSerial	
automatically	Enable connect an usb device automatically	



If you check the 'Enable connect an usb device automatically' option, it will be connected automatically from the next connection.

5) Touch and hold the vice information.5) Touch and hold the vice information.6) Click the 'Connect' button among the activated menus.

Registed Device	es		
2 ATS	es 91USBSer ≇⊼ĂĂ	ial Connect Enable Auto Delete	Connect

7) When connected to the device normally, a window asking whether to allow access is activated. Click 'OK' to connect the ATS200 to the host device.



5. Android Host - USB Disconnection

1) device, touch and hold the registered device information ψ icon on the 'Registed Devices' selection screen.

egisted Devices
ATS202207001

With the ATS200 connected to the host 2) Click 'Disconnect' in the activated menu to disconnect the connection between the host device and the ATS200.



6. Android Host - Remove USB Connection Information

- 1) With the ATS200 connected to the host 2) Click 'Delete' in the activated menu to delete device, touch and hold the registered device information Ψ icon on the 'Registed Devices' selection screen.
 - ATS200 device registration information.

ATID R	eader SE	≡
Registed	Devices	
17	AT\$200 AT\$200207001	Ŷ



7. Android Host - RFID Tag Scan



In order to connect the Android Demo App and the device, the Data Communication Mode of the device must be set to 'SPP' for Bluetooth connection and 'VCP' for USB connection.

1) After completing the connection with the 2) Click 'RFID' in the menu at the top of the host device, touch and hold the device name shown below on the connected device on the 'Registed Devices' screen to enter the 'Inventory' screen.

ATID Reader SE	≡
Registed Devices	
ATS200-6967 00:04:3E:54:69:67	*
0.0432.0407.07	

'Inventory' screen.





To enter the 'Inventory' screen, you must touch the device name for a certain period of time.

TIME

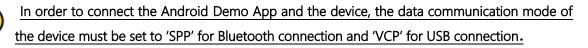
JUUE 300

- 3) Click the 'Start' button on the Demo App or pull the ATS200 trigger to start data reading.
- 4) The collected data is displayed on the 'Data' screen of the Demo App. Click the 'Stop' button on the Demo App or release the ATS200 trigger to stop data collection.

fractional Inventory		≡	DU((*, 3))
RFID Deta	BARCODE	KEY	Trigge
Tag/Total Count	0 Start	0	
Setting	_	llear	
setting			



8. Android Host – Barcode Scan

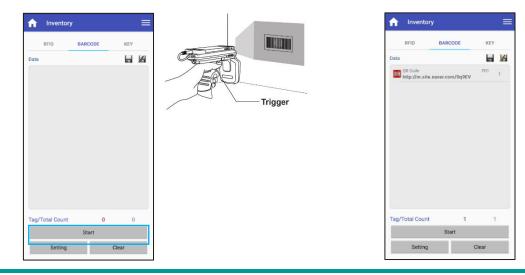


- 1) After completing the connection with the host device, touch and hold the device name shown below on the connected device on the 'Registed Devices' screen to enter the 'Inventory' screen.
 - ATID Reader SE = dicted De ATS200-6967 *

2) Click 'BARCODE' in the menu at the top of the 'Inventory' screen.

f Inventor	у		=
RFID	BARCODE	KEY	
Data			6
Tag/Total Count	0	0	
	Start		
Setting		Clear	

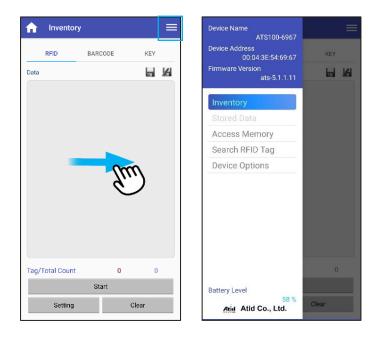
- To enter the 'Inventory' screen, you must touch the device name for a certain period of time.
- If you select the 'BARCODE' menu on the 'Inventory' screen, if the current setting of ATS100 is RFID mode, it is automatically changed to barcode mode. The reverse works the same.
- 3) Click the 'Start' Button on the Demo App or 4) If the barcode is read normally, the collected pull the ATS200 trigger to start data reading.
- data is displayed on the 'Data' screen of the Demo App.



ATS200 User Guide

9. Android Host – Demo Application Menu

As shown in the following figure, if you touch the eigen icon on the top right of the Inventory screen or swipe the screen from left to right with your finger, you can see the demo menu appear. In this menu, you can check device information and make basic settings.



- 1) Device Name : Device name composed of device name and Bluetooth MAC Address.
- 2) Device Address : Bluetooth MAC Address of the device.
- 3) Firmware Version : The firmware version currently installed in the device.
- 4) **Inventory** : Returns to the Inventory screen. You can also return by touching an area other than the menu.
- 5) Access Memory : Enters Memory Access mode of Tag.
- 6) Search RFID Tag : Enters the Search RFID Tag mode.
- 7) Device Options
 - Firmware Version
 - Serial No : Displays the serial number information of the device.
 - Auto Off Time : Set the time to turn off the device when not in use.
 - Button Mode : Sets the buzzer sound when the button is pressed.
 - Button Notify : Set whether to operate the buzzer and vibrator when the button is pressed.
 - Alert Notify : Set whether to operate the buzzer and vibrator when a notification occurs.
- 8) Battery Level : Displays the current remaining battery status.

For details on how to use the Demo App, refer to the 'ATID Reader Demo Guide for Android' document included in the SDK.

Using Windows Host Demo Application

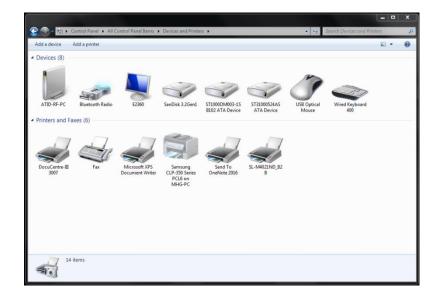
1. Windows Host – Bluetooth Connection

To transmit/receive data to/from Windows platform devices using Bluetooth, **ATS200** requires a PC with built-in Bluetooth function or a dedicated Bluetooth dongle. This chapter describes the Bluetooth connection method for Windows 7 and Windows 10, which are representative Windows platforms.

- For details related to the Bluetooth function of the host device, please check with the place of purchase of the PC or the person in charge of product installation.
- **•**
 - In this chapter, it is assumed that the Bluetooth-related driver is installed normally.
 - For any problems that occur while using the product or during the installation process, please contact the dealer or manufacturer where you purchased the product.
 - If the Bluetooth driver is not installed normally, or if a special driver supported separately by Windows 7 and Windows 10 OS is used, the contents of this manual may not match.

2. Windows Host - Windows 7 Platform

- 1) Set the communication mode of **ATS200** to 'Bluetooth Data Communication Mode' and set it to SPP mode.
- 2) Select 'Start \rightarrow Control Panel \rightarrow Devices and Printers \rightarrow Add a Device'.



3) The Bluetooth device is automatically searched. After selecting the '**ATS200-XXXX'** that you want to connect to, press 'Next' to proceed with adding a device.

	levice to add to this com	·			
Windows wi	III continue to look for new devi UC96,5PP Bluetooth Other Sound Drum Bluetooth Bluetooth Bluetooth headset	Constant display the second seco	AT388-cha Bluetooth Keyboard ATS200-e38c Bluetooth Keyboard]	
	dows doesn't find my device?				

4) When the connection code confirmation window is displayed, click 'Next' to proceed. The connection code does not need to be specially changed.

🕝 🔮 Add a device	
Compare pairing codes between your computer This will verify that you are connecting to the correct device.	r and this device
605340 Does the code above match the code on the device: • Yes • No • The device is not displaying a code	AT5200-e38c
What if this code does not match the code on my device?	Next Cancel

5) After a while, Windows7 will automatically search for the driver and proceed with the installation, and the screen will display a message Add device complete.

		23
G	🚏 Add a device	
	This device has been successfully added to this computer	
	Windows is now checking for drivers and will install them if necessary. You may need to wait for this to finish before your device is ready to use.	
	To verify if this device finished installing properly, look for it in Devices and Printers.	Z
		ATS200-e38c
		Close

6) Double-click the newly added 'ATS200-XXXX' in 'Control Panel → Devices and Printers' to display its properties, and then move to the 'Service' tab.

							_ = X	
	Control Panel + All C	ontrol Panel Items + 1	Devices and Printers		* 6	Search Devices and		ATS200-e38c Propert
	Add a printer						E • 0	General Hardware Services Bluetooth
Devices (9)								This Bluetooth device offers the following services. To use a service, select the check box.
M				-	-	-	10	Bluetooth Services
0		-	-	0	0	0		Serial port (SPP) 'AMP-SPP' COM3
ATID-RF-PC	AT\$200-e38c	CSR8510 A10	E2360	SanDisk 3.2Gen1	ST1000DM003-1S B102 ATA Device	ST31000524AS ATA Device	USB Optical Mouse	
Wired Keyboard								
400 Printers and F								
		_	an.		_			
	de	-			-			
DocuCentre-III 3007	Fax	Microsoft XPS Document Writer	Samsung CLP-350 Series	Send To OneNote 2016	SL-M4021ND_B2 B			
			PCL6 on MHG-PC					
. 7 1	5 items							
-								OK Cancel App

7) After checking all the services that appear in the Bluetooth service, click the OK button to finish adding services and adding Bluetooth devices. From this menu, user can find the COM port information assigned to the Bluetooth device.

3. Windows Host - Windows 10 Platform

- 1) Set the communication mode of **ATS200** to 'Bluetooth Data Communication Mode' and set it to 'SPP' mode.
- 2) Enter the Windows Settings menu through ' \blacksquare Start \rightarrow 🚳 Settings' of Windows.
- 3) Select 'Device' menu in Windows settings.

		Windows Settings		
	Fir	nd a setting	R	
System Display, sound, notifications, power	Devices Bluetooth, printers, mouse	Phone Link your Android, iPhone	Network & Internet Wi-Fi, airplane mode, VPN	Personalization Background, lock screen, colors
Apps Uninstall, defaults, optional features	Accounts Your accounts, email, sync, work, other people	Time & Language Speech, region, date	Saming Xbox Game Bar, captures, Game Mode	Generation Service Ser
Search Find my files, permissions	Privacy Location, camera, microphone	Update & Security Windows Update, recovery, backup		

4) Check that the Bluetooth function is turned on. If it is off, turn on the Bluetooth function.

- 5) Select 'Add Bluetooth or other device' menu.
 - Bluetooth & other devices
- 6) Select the device type to add as Bluetooth. When selected, it starts searching for nearby Bluetooth devices that are requesting pairing.
 - <text><text><text><text><text><text>
- 7) If you click the device you want to connect to among the found Bluetooth devices, the pairing information screen of the target device is activated. After checking that it matches information of the screen of **ATS200**, if it matches, click the 'Connect' button.

Add a device X	Add a device X
Add a device	Add a device
Make sure your device is turned on and discoverable. Select a device below to connect.	Make sure your device is turned on and discoverable. Select a device below to connect.
G Unknown device	G Unknown device
ជ្រា Unknown device	ATS200-6467 Connecting
页 ATS200-6967	Press Connect if the PIN on AT\$200-6667matches this one. 489954
	Connect Cancel
Cancel	Cancel

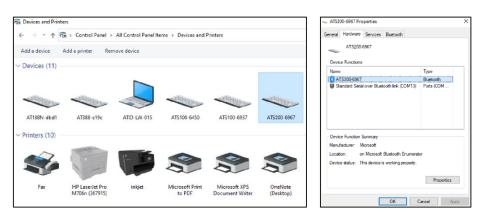
The 4 digits after the device name to be searched are the last 4 digits of the Bluetooth Module MAC Address. This 4 digit value is entered as a different value for all devices. 8) When pairing is completed normally, 'Your device is ready to go!' message is displayed. Click the Done button to complete the pairing process.

Add a device	×
Your device is ready to go!	
AT\$200-6967	
	Done

9) When the device is added successfully, the device will be registered with the message 'Paired'.

Othe	er devices
	ATS200-6967
	Paired

The COM Port information assigned to the device can be checked in the 'Hardware' tab of the 'Properties' of the connected device in 'Devices and Printers' of the control panel.



10) After confirming that the **ATS200** and the host device are connected, set the desired operation mode before use.

4. Windows Host - USB Connection

A USB cable is required to transmit/receive data to/from a Windows platform device using the ATS200 USB interface.

- For USB connection with Windows Host, the communication mode setting of the device • must be set to USB data communication mode.
- The USB data communication mode of the device must be set to VCP mode.
- Check whether '.NET Framework 3.5' is installed.

Click

তাৰ

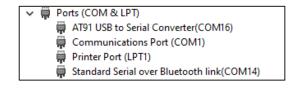
Turn on the product and set the 2) Plug the supplied USB cable into the USB port 1) communication mode to 'USB Data Communication Mode'.

on the back of the ATS200.

3) Connect the USB cable to the PC.



4) Check the COM Port assigned to the machine in Device Manager in Control Panel.



The COM port number assigned to the device differs depending on the situation of the Host PC to which the device is connected.



5. Windows Host – Demo Application Connection

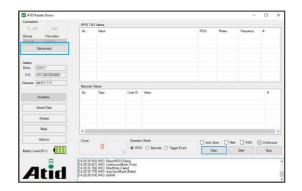
1) Run the Demo App, select the device you want to connect to the 'Device' item, and select the 'COM Port' number assigned to the device.

ATID Reader Demo								ATIO Reader Demo							D
VCP WiR	RED TA							Connection	REID TR	G Values					
	No.	Value		RSSI	Phase	Frequency	#	IN C D WR	No.	Value		RSSI	Phase	Requency	#
nice name								Device In name ATS100 COM13 V							
ISBN Nect								ATS100 COM13 C							
5100 COM13 ~ 1801 ect 100 1100								COM10 CDM12							
0100 ion								Carry COM10 COM12 COM12 COM12 COM12 COM12 COM13							
NO 2.0.0.7								Version Demo 2.0.0							
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nare l								Fermare	· · · · · · · · · · · · · · · · · · ·					_	
	Barcode							rannare	Barnda						
Invertory	No.	Type	Code ID Value				-	Inventory	No.	Type	Code ID Value				#
Stored Data								Stored Data							
								Access							
Mask:	<						>	Mark	٤						
			Operation Mode					Cetona	Caut		Constan Mode				
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							2-1			0	C HPID () Bacode				
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Atid								Atid							
								Atid							
							6								

- If the 'Port name' does not match the device to be connected, check the communication mode status and driver installation status again.
- If there is a problem installing the driver for Windows, please manually install the USB driver distributed with the SDK.
- 2) Click the 'Connect' button to connect the **ATS200** to the host device. When the connection is completed normally, the buttons of the demo app are also activated.

ATID Reader Demo		- 🗆 ×	ATID Reader Demo		- 🗆 ×
Connection	RFID TAG Values		Connection	RFID TAG Values	
VCP O WR	No. Value	RSSI Phase Frequency #	⊗ VCF ○ WR	No. Value	RSSI Phase Frequency #
Device Port name			Device Port name		
			ATS100 COM13 -		
Connect			Disconnect		
Vension			Version		
Demo 2.0.0.7			Demo 2007		
5/N			S/N ATS10018030001		
Amusare	<		Ferrivare als-5.1.1.11		
	Barcode Values			Barcode Values	
inventory	No. Type Code ID Value	2	invertory	No. Type Code ID Value	
Stored Data			Stored Data		
Access			Access		
Masic	¢	2	Mask	¢	
Options	Court Operation Mode	Auto Save Riter RSSI Continuous	Options	Court Operation Node	Auto Save Fiber RSSI Continuous
	0 C RND C Beroode	Clear Start Step	Eattery Level (\$1%)	0 ® RFID O Becode O Tagger Event	Oear Stat Step
Atid		^	Î	[14:29:35:543] INFO. ReportPSSI Fates] [14:29:35:62] INFO. Continuouillade [Tree] [14:29:35:76] INFO. Retrictor [anot] [14:29:35:77] INFO. And SarraNode [Felse] [14:29:35:77] INFO. Endre	^
Atid		v.	Atid	[14:29:35:775] [NFO: Auto SaveMode [Felse] [14:29:35:976] [NFO: Endine	

3) If you want to disconnect from the host device, click the 'Disconnect' button to disconnect.

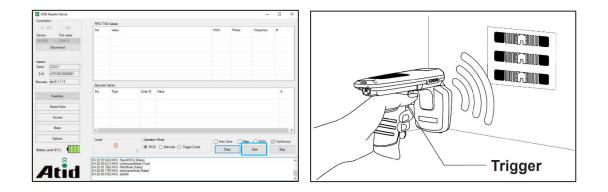


6. Windows Host - RFID Tag Scan

- 1) Referring to the above, connect the **ATS200** to the host device and connect the Demo App.
- 2) Check if 'Operation Mode' is set to RFID, and if not, set it to RFID.



3) Click the 'Start' button on the demo app or pull the trigger of ATS200.

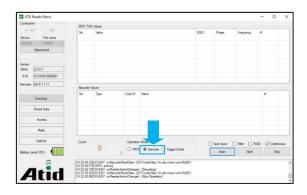


4) If the 'Continuous' item is checked, the tag scan stops when the 'Stop' button is pressed or the trigger is released. A list of recognized tags is displayed in 'RFID TAG Values'.

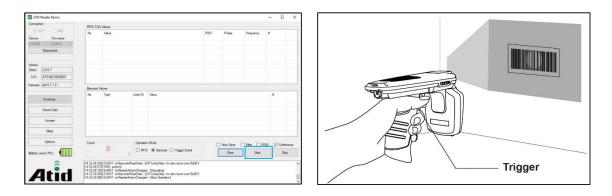
BED Tar	S Malaure							
No. 10. Value 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10. 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000				R551 0.0 0.0 0.0 0.0 0.0 0.0	Phase 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Frequency 0.00 0.00 0.00 0.00 0.00 0.00 0.00	л 18 6 4 1 11 2	
Demodel	Values							
No.	Type	Code ID	Value				*	
e		_						1
Count	6					or 📄 RSS Not	Stop	
	No. 1 2 3 4 5 6 No. Ke.	2 - 3000054 SUBJECTOR 2 - 3400005000000 3 - 20000000000000 4 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 200000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 2000000000000 5 - 20000000000000 5 - 2000000000000 5 - 2000000000000 5 - 20000000000000 5 - 20000000000000 5 - 20000000000000000000000000 5 - 20000000000000000000000000000000	No. Year 1 2000001916/T000100000000000000000000000000000000	The Second	No. Solar 702 1 0000071 Minitian Hotoschultur, Commendation Hotoschultur,	No. Year Old American 1 000007104/T00010000000000000000000000000000000	No. No. <td>No. Model Fig. Processory Processory Fig. Processory Processory</td>	No. Model Fig. Processory Processory Fig. Processory Processory

7. Windows Host – Barcode Scan

- 1) Referring to the above, connect the **ATS200** to the host device and connect the Demo App.
- 2) Check if 'Operation Mode' is set to 'Barcode', if not, set it to 'Barcode'.



3) Click the 'Start' button on the Demo App or pull the trigger of ATS200.



4) If the 'Continuous' item is checked, the barcode scanning stops when the 'Stop' button is pressed or the trigger is released. A list of recognized tags is displayed in 'Barcode Values'.

ATID P.	eeder Demo								-	- 0	>
Connection	•	BEO TA	0.104.00								
(E) VC	P 🔘 Wili	RFID TAG Values No. Value PSSI Phase Frequency #									
Device	Port name										
ATS100	COM13										
	Deconnect										
Version											
Demo [20.0.7										
5/N	ATS10018030001										
Terreare (ata-5.1.1.11	Barcole	Barcode Values								-
		No.	Type	Code ID	Value						
Inventory		1	GR Code	Code P01 http://m.ste.naver.com/0qSEV						2	
3	Stored Data										
	Access										
	Mask										
Optiona		Court	Cours Operation Mode				Auto Save	Filter	RSSI	Continu	ous
Battery Lev	nei (801)		1	2 O REI	Barcode Trigger Event		Cear	5	Rat	Stop	
	8	[14 32 24 2 [14 32 29.5	(38) EVENT, onBaro (78) INFO, action()	odeReadData - (1	0R Code] http://m.ate.never.com/0p9E	v					
	tid	14 32 29 7	25 EVENT onReso 29 EVENT onBero	lerActionChange odeReadData - [1	i - [Decoding] JR Code] http://m.ste.never.com/0q9E i - [Stop Operation]	v					
		114 32 30.8	ing event, on Head	ernctionChanges	a - Excelo reperation1						



For details on how to use the Demo App, refer to the 'ATID Reader Demo Guide for Windows' document included in the SDK.

Using iOS Host Demo Application

- 1) In order to 'transmit/receive' data with iOS platform devices for **ATS200**, the 'Bluetooth Data Communication Mode' setting of **ATS200** must be set to BLE mode.
- 2) User can download the Demo App through the 'App Store'.

Kegist Device	< Regist De	vice			ATID Reader D	emo
Paired Device	=			Save		
		Inventory	F: Barcode	Key Event Report	App Version	201904.01
					ATS200-6639	\mathbf{O}
New Devices 🔆						
ATS200-6639						
	-					
	Tag/Tot	al Count	0/0		New Device	9
		Start				
Stop	Set	ting	Clear	e.		

- The demo app is available from iOS version 10.2 or later.
- For details on how to use the demo app, refer to the 'ATID Reader Demo Guide for iOS' document included in the SDK.

Firmware Update

This product may be updated in the future to enhance its functionality and performance. If there is a problem during Firmware's update operation, the product may not be recoverable. So, if you don't have knowledge of software and hardware, please contact your place of purchase or manufacturer for updates.

1. Firmware Update Preparation

- 1) PC with Windows 7 or higher version (USB 2.0 Port)
- 2) ATS200
- 3) USB Type-C Cable
- 4) Firmware File (xxxx.bin)
- 5) Firmware Update Tool (Available from reseller or manufacturer if required)

2. Firmware Update Procedure

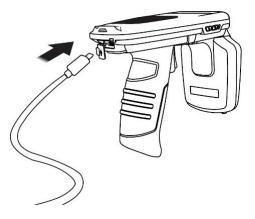
- 1) Save the firmware file in a specific folder on your PC.
- 2) Execute the firmware update program.

A DOWNLOAD 4.0	×
select comport v offline	no device
Load Binary File	DOWNLOAD
	CODE ~ 0x008000(212992)
	^
	¥

3) After clicking the 'Load Binary File' button, designate the folder where the firmware file was previously saved.

A DOWNLOAD 4.0	×
select comprt v offine Load Binary File	no device DOWNLOAD
file size : 204566 file date : 2018.12.10 01:50:00	CODE ~ 0x008000(212992)
C:\Users\User\User\User\User\User\User\Use	WAT388N Firmware Note

4) Connect **ATS200** to PC using USB Cable.



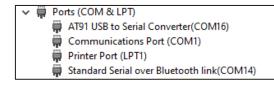
- 5) Set the communication mode setting of **ATS200** to USB mode, VCP.
- 6) Click the 'select comport' button of Firmware Download Tool. Then, select the COM Port assigned to **ATS200** connected to your PC.

select comport ~ offline COM16	no device		
Load Binary File			
file size : 204566 file date : 2018.12.10 01:50:00	CODE \\ 0x008000(212992)		
C:\Users\User\Documents\Atid\4. A	T388₩AT388N Firmware Not		
	1		

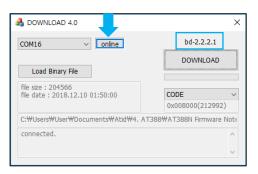


COM Port is assigned a different number depending on the PC situation.

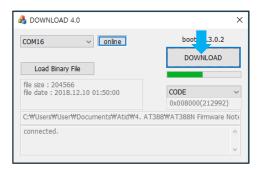
Control Panel 'Device Manager \rightarrow Ports (COM & LPT)' Please check the COM Port number assigned to 'AT91 USB to Serial Converter' before entering.



7) Click the 'offline' button to attempt to connect to the device. When connected normally, the button changes to 'online' and displays the current firmware version.



8) Click the 'DOWNLOAD' button to start the firmware update.



- <u>If the update is interrupted while the update is in progress, the device may become</u> unusable.
- The update may fail due to external factors. In this case, please try again.
- 9) After a while, the product will automatically restart when the download is complete.

SDK (Software Development Kit)

When the device operates in interactive mode, a separate program must be developed by referring to the SDK provided by ATID in order to utilize the data transmitted from the host device. ATID Bluetooth Reader SDK supports three platforms: Android, Windows, and iOS.

Platform	Development Tool	Development Language			
Android	Andorid Studio	Java			
Windows	Visual Studio	.NET Framework (C#), UWP (C#)			
iOS	XCODE	Objective-C			
SDK Package	Details				
Configuration					
Demo	Demo Application				
Doc	Development documents such as user guides / manuals,				
	programmer guides, demo guides, etc.				
Lib	Library for application development				
Sample	Sample Code				
USB Drive for Windows	Windows USB Driver of ATID Bluetooth Reader				



Each folder is composed of subfolders for each platform as shown below.



Product Warranty

1. ATS200 Product Details

For more information on product details ATS200, please visit the address below.

http://www.atid1.com

2. SDK Download

If you need an ATS200 SDK, please contact us or the place of purchase.

3. Warranty and Technical Support

All **ATID** products can be repaired free of charge for one year based on the product manufacturing date. However, in principle, any defects caused by customer carelessness in use shall be repaired even during the free repair period.

For warranty, technical support and inquiries on this product, please contact the distributor or ATID.

4. Certifications

- 1) This product is KC, FCC, CE and TELEC certified, but we are not responsible for any issues arising during use outside of the certified area. For more details, please contact the distributor or ATID.
- 2) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

3) 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.

FCC CAUTION:

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC NOTE:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

4) Label Requirements



5) FCC RF Exposure Information and Statement

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: UHF RFID Reader (FCC ID: VUJ-ATS200) has also been tested against this SAR limit. SAR information on this and other pad can be viewed on-line at http://www.fcc.gov/oet/ea/fccid/. Please use the device FCC ID number for search. This device was tested simulation typical 50 mm for RFID transmit to body. To maintain compliance with FCC RF exposure requirements, should maintain a separation distance between the user's bodies mentioned above

ATID

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The contents of the user manual are subject to change without notice for product specifications change or improvement.