




ATID Co.,Ltd

AT288N Reader Android Demo Guide

AT288N Demo Guide

SW Team
2023-06-12

		AT288N Reader Android Demo Guide					
AT288N Demo Guide					Company	ATID Co.,Ltd	
Title		Author	SW Team	Date	2023-06-12	Version	v0.2

Version History

Version	Revision Date	Reason ¹	Contents of Revision ²	Author
v0.1	2016-05-24	Draft		KJ,MIN
v0.2	2023-06-12	Revision	Update screenshots	SW Team

¹ Revision Reason: Compared to the previous file, add, modify or delete the contents of enactment or revision.

² Revision content: States the page number and changed contents that where to be revised.



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1. Summery

This document intended to explain how to use the AT288N DEMO program on the Android operating system.


2. AT288N each part of name and Functions



- Power button:** Enable to ON/OFF AT288 device power. When power is on, Tag type lamp, reading mode lamp, antenna power lamp and communication type lamp will be on too.
- Tag type button:** Select Tag type mode, it change Multi Inventory/ Single Inventory/ if the lamp is turn up both, that means filter inventory.
- Communication type selection button:** Select communication type between AT288N device and Host device.

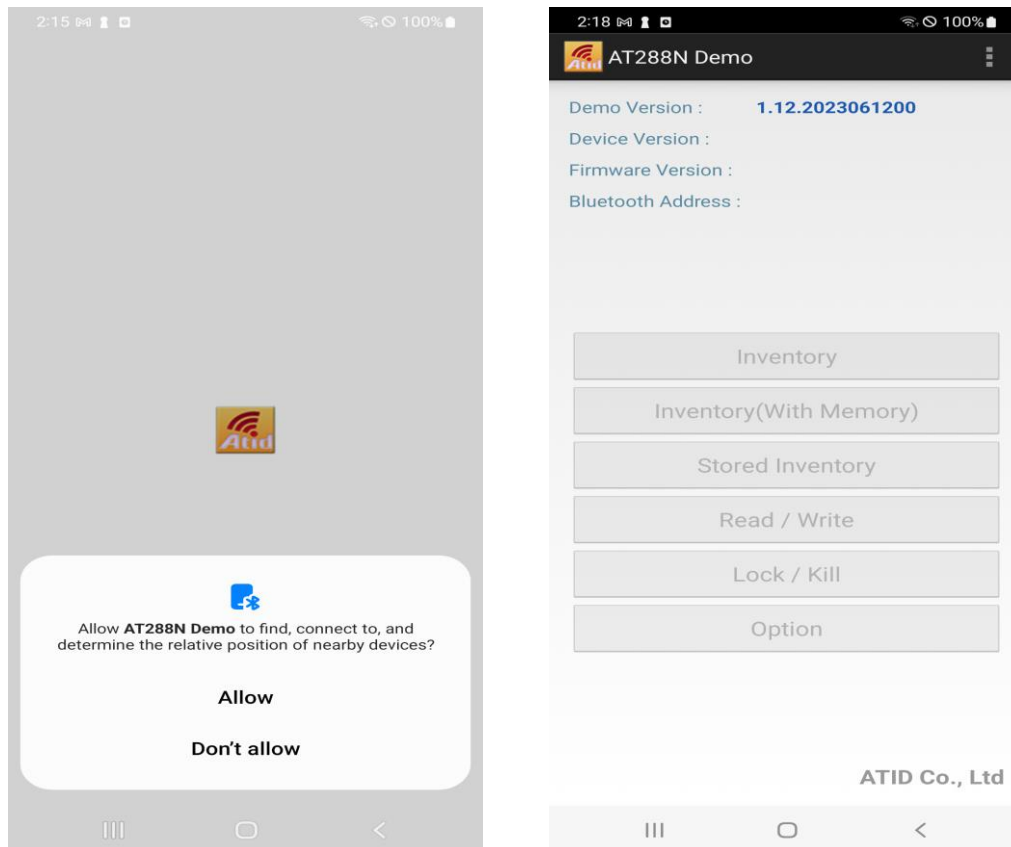
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- iv. AT288N device supports to have communication via Bluetooth and USB
- v. **Scan button** : Press the Scan button, It starts Tag inventory , If hands off from button,
- vi. It stop tag scanning.
Antenna power down/ Bluetooth Stack changed button:
 Control the UHF antenna power,
 Antenna power down button makes antenna power down
 If user press longer, it changed Bluetooth Stack SPP or HID
- vii. **Antenna power up:** Enables to increase the UHF Antenna Power Level


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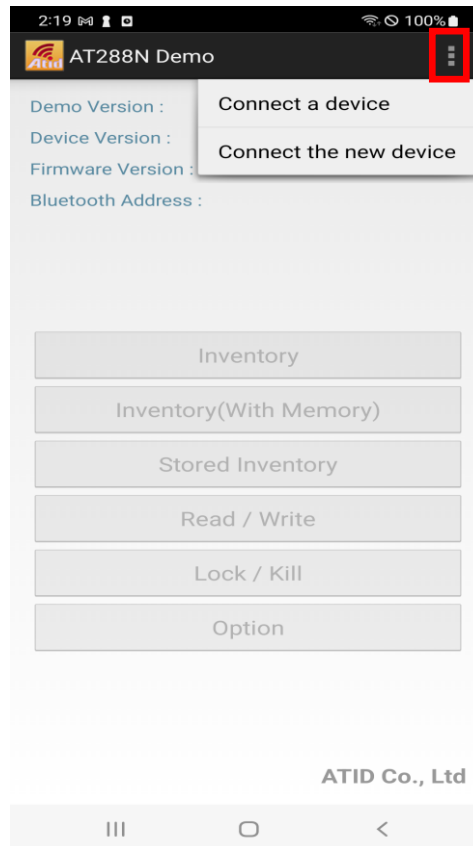
3. Connection

Even the programming is running but Android device's Bluetooth does not turn on, user can see as left picture. Press "Yes" and turn on the Bluetooth Device.




If the Bluetooth device is already turn on, user can see right side picture. Press the menu for connect AT288 device.

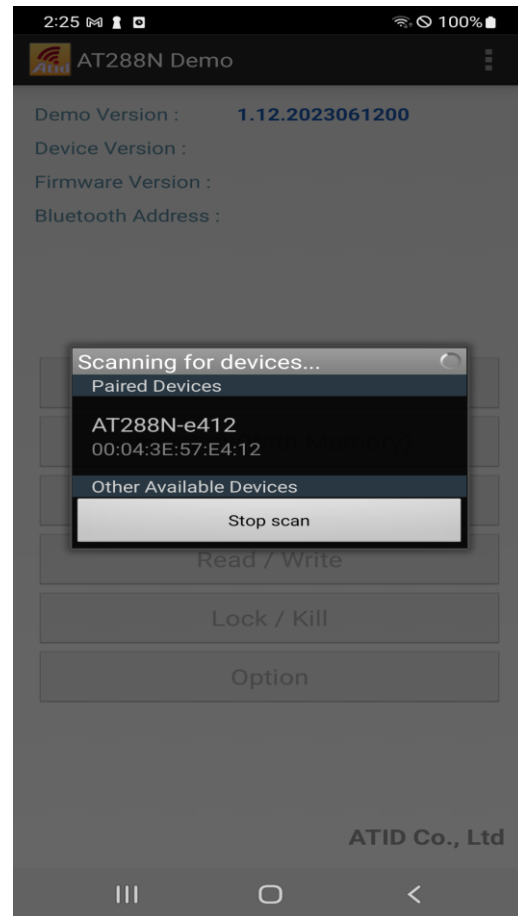
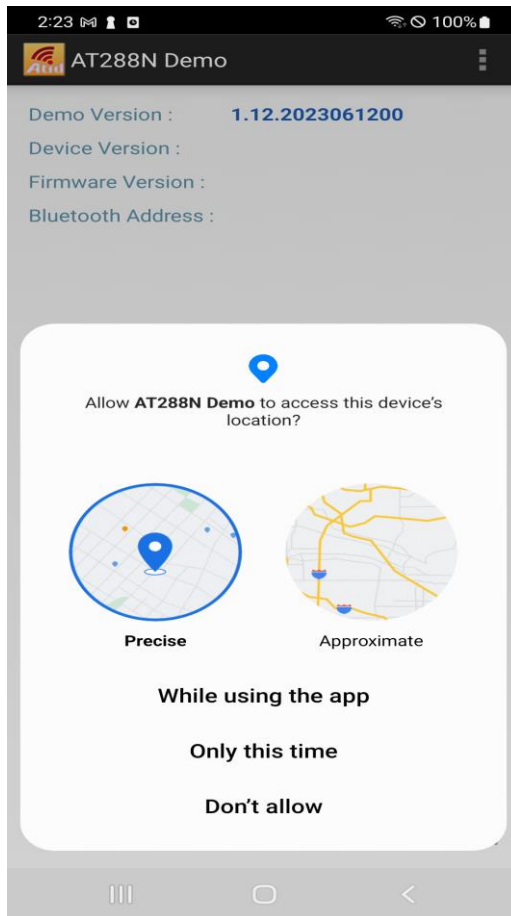
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It has total three menus with below function.

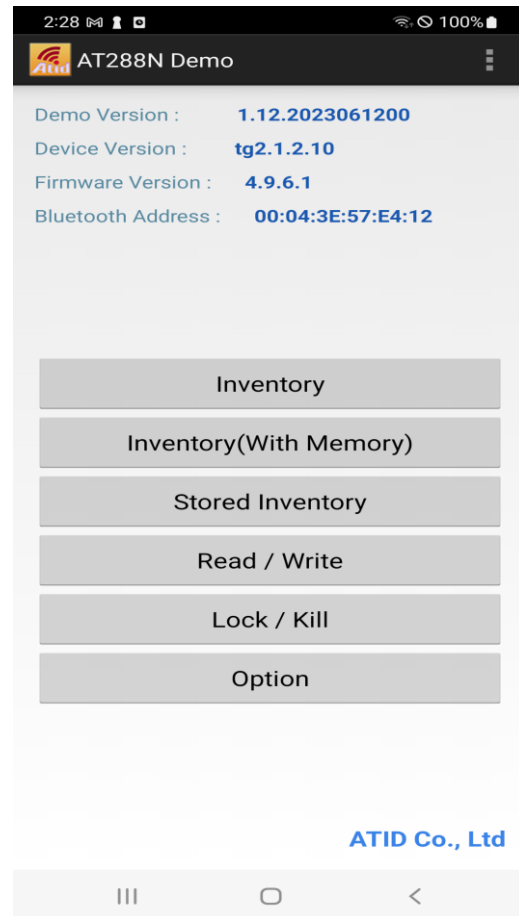
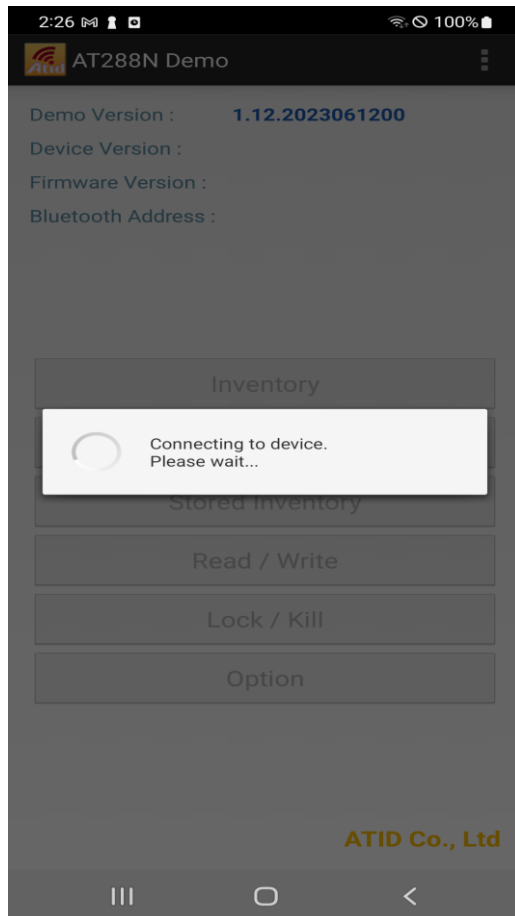
- i. **Connect a device:** Try to connect AT288 which was connected to the conventional.
- ii. **Connect the new device:** Try to connect new At288 device

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When user who choose connecting new device menu, can see left side picture as above, this is Bluetooth device search dialog box. AT288 search the Android device for connecting and change the android device's Bluetooth module to connecting wait state.

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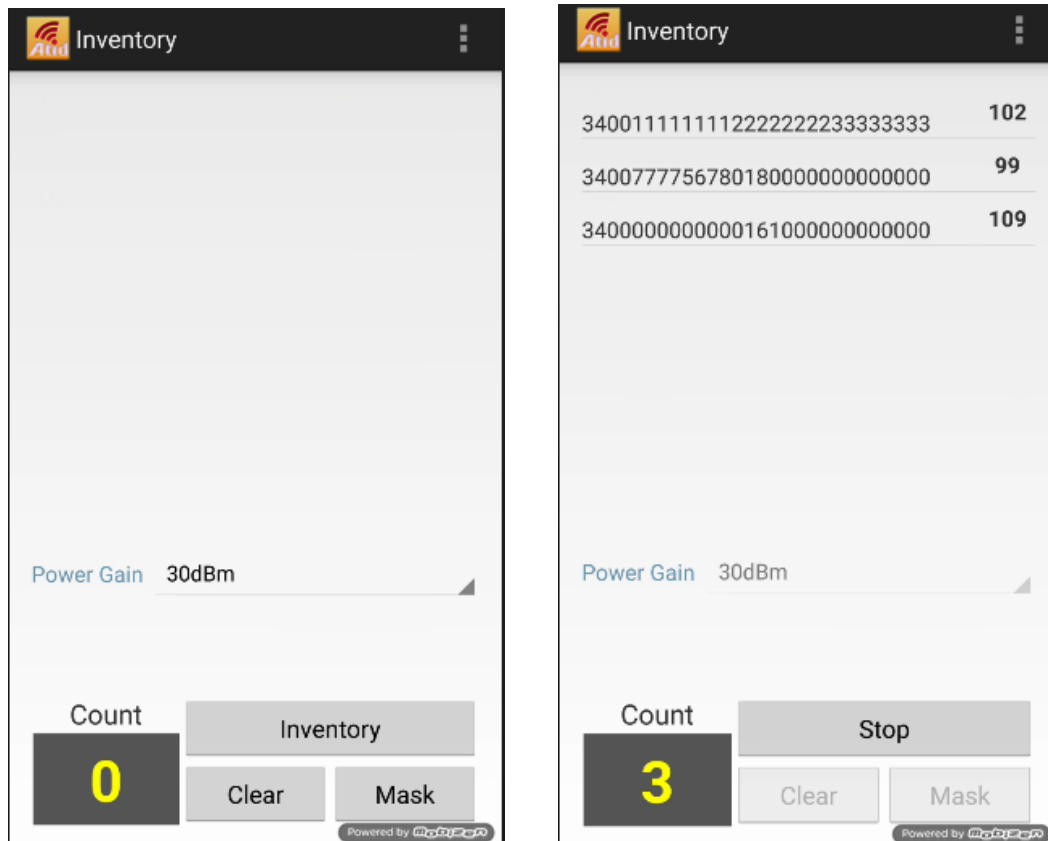



When the user try to connect AT288 device, until the finish to connect completed, as shown left side picture as above and when the connection is completed, the menu button is activated as right-side picture as above.

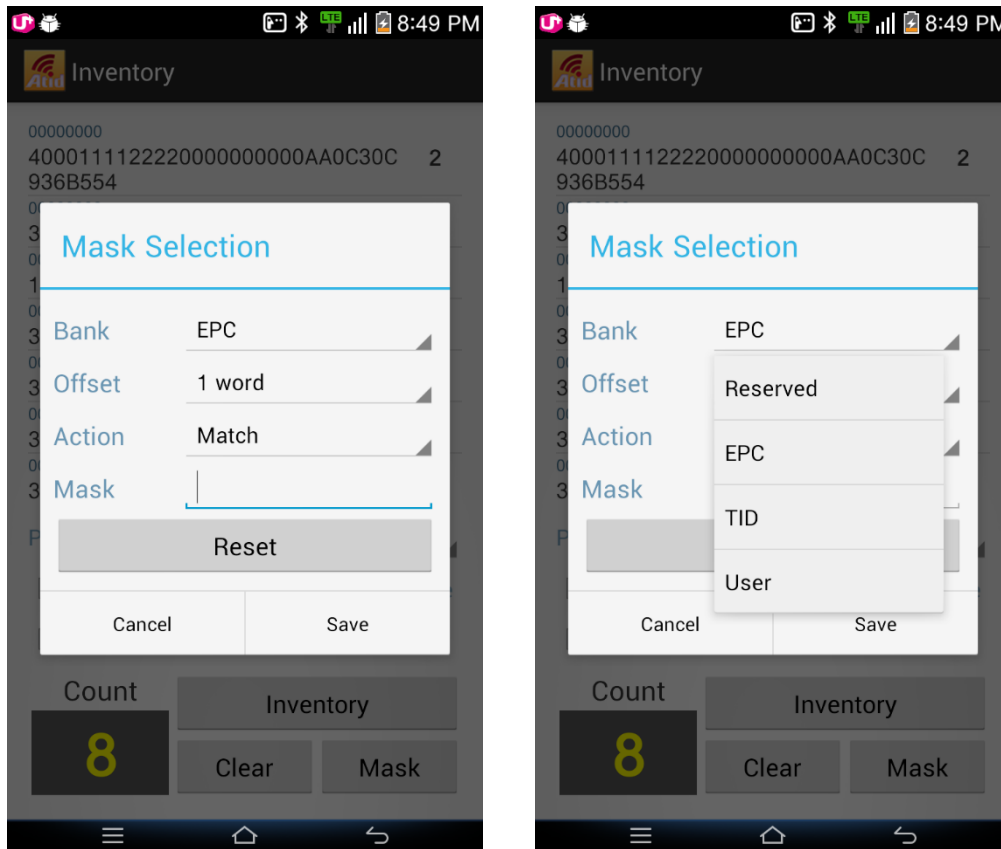
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4. Inventory

Press the 'Read Inventory' button in the main display, shown picture as left side below.
When user press the 'Inventory' button, inventory is start working and the button is changed "Stop"




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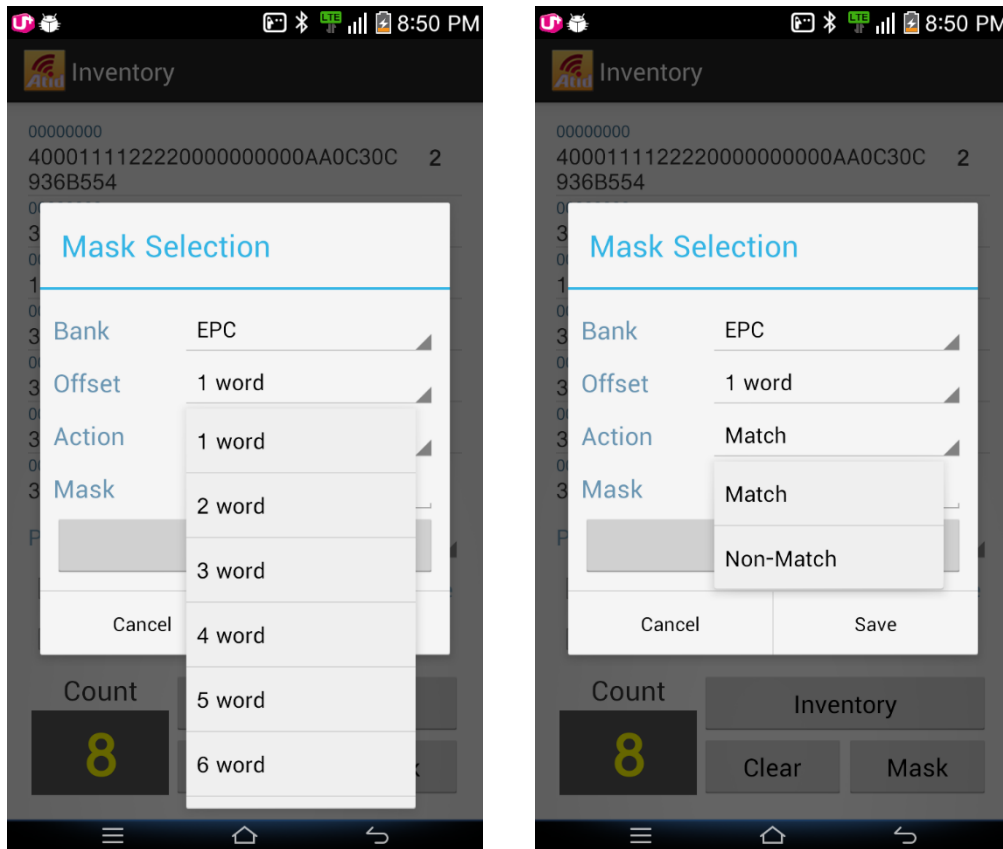


Click the Mask button; user can see selection Mask option as above left side picture.

Mask options set up for Mask bank Memory type, Start address of Mask, Value of Mask and Mask value's action type. Among the Mask options, click the bank type as right side of picture.

But, TagType 6B of AT288N MA is not supported (f/w ver: ma.1.2.0.9B)


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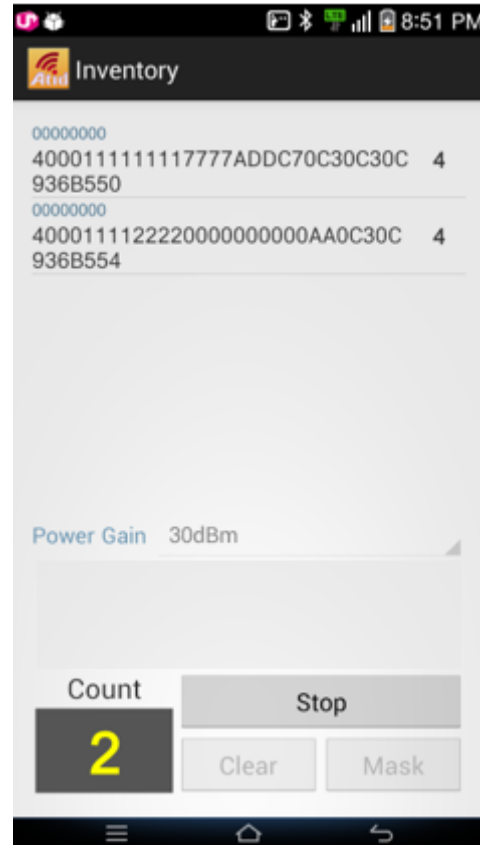
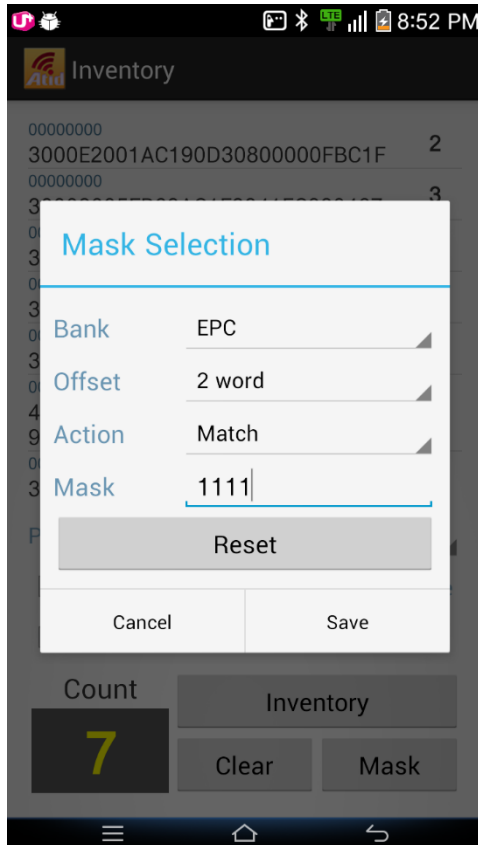


Select Start Address, user can choose the start masking address


And choose the selection action,

Masking to selection action Masking with Matching masking values, as shown in the figure to the right when you want to Matching is not whether can choose.

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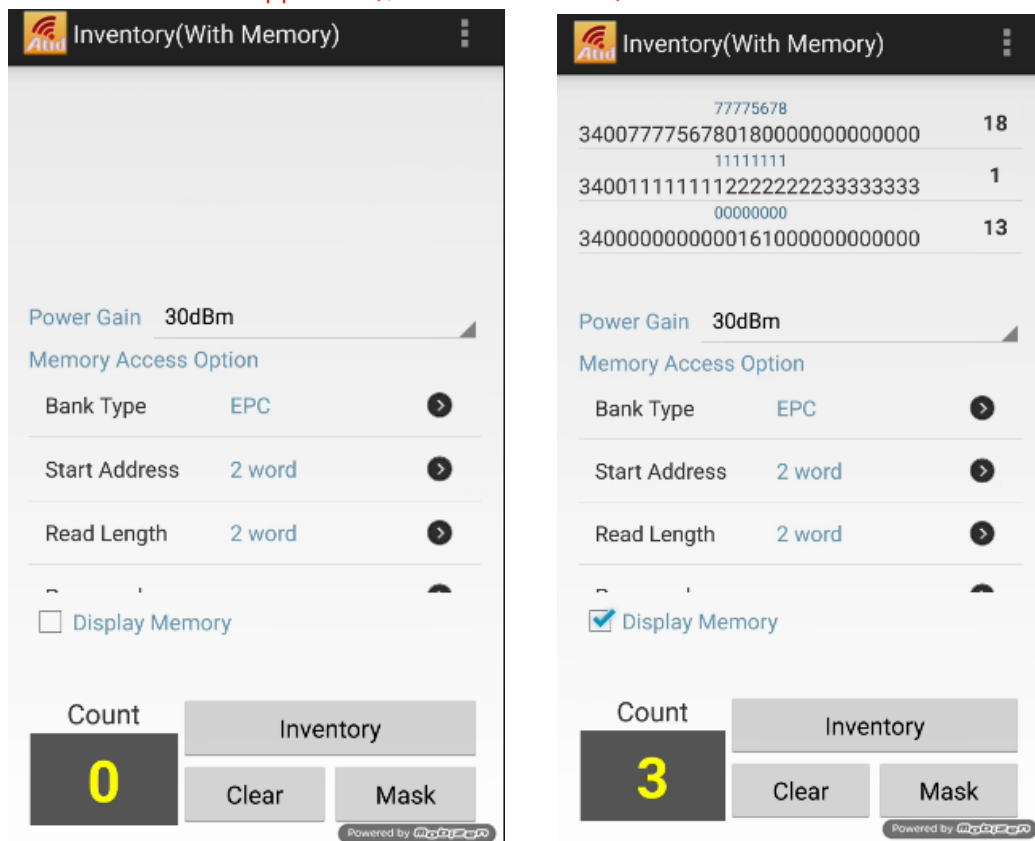
Finally, enter the value of the Mask in the Mask potions' Mask

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5. Inventory (With Memory)

On the main screen, click the button "Inventory (With Memory)" User can see Below left screen.

If you click "Inventory", which is running and button is changed to 'Stop' Inventory
AT288N MA is not supported (f/w ver: ma.1.2.0.9B)



If you want to stop working Inventory, Click "Stop' button

For the initialize screen, click the 'Clear" button.

Display PC Checking box is for select to copy of PC value on the inventory Tag value.

If it is checking Display PC, copy on the list together with Tag's Pc and EPC value,

But if it is non checking Display PC, copy only EPC value

Continue Mode Checking box is for select to read tag in the inventory tag reading information continually or not.


If it is checking Continue MODE, continue to read the tag, even as you read the Tag,

But it is non checking Continue Mode, Reading the tag is no longer outputted inventory list

Use serial NO is for select to copy of AT288 S/N on the screen.

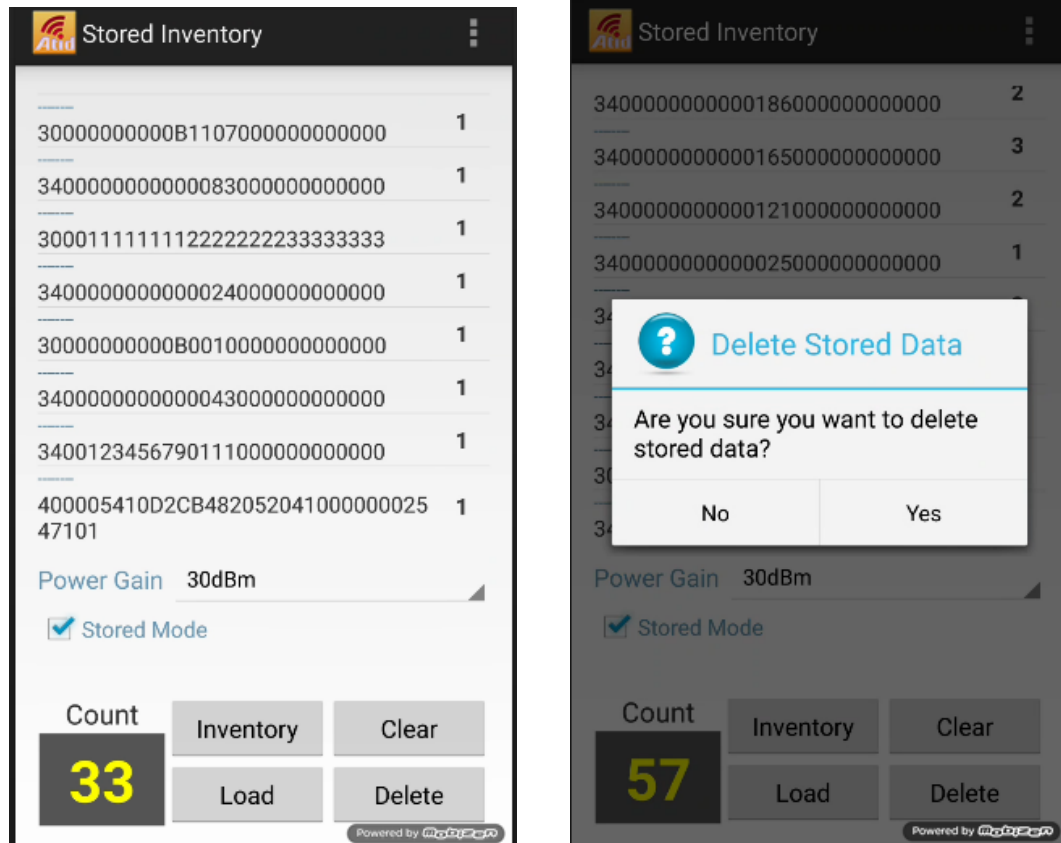
If Use Serial No is checked, AT288 S/N output with EPC value

But if the check is disabled and is being received only the data for EPC value

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6. Stored Inventory

"Stored inventory" button to the left of the screen below will appear on the main screen.



Stored inventory is for running Inventory during no connection with AT288 and save the tag inventory list in the device's memory.


Display PC checking box is same as Read inventory's Display PC checking box.

If save mode is checked, the AT288 save the Tag list in the memory but if save is not checked tag list will not save in the internal memory.

Start button can be seen immediately by running the inventory after save mode check or uncheck

Load button is for reading Tag list which is saved in the AT288 internal memory.

Delete button is for delete tag list which is saved in the AT288 internal memory.

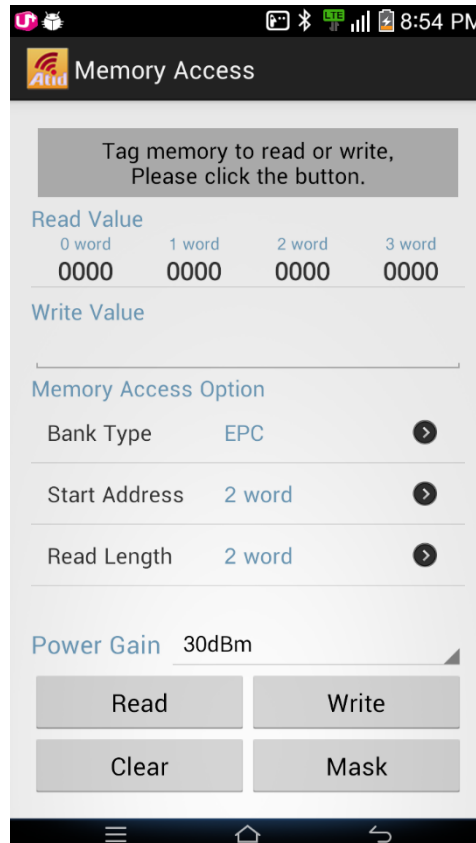
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7. Memory Access

Press the "Memory Access" then shown the Memory access screen as below.

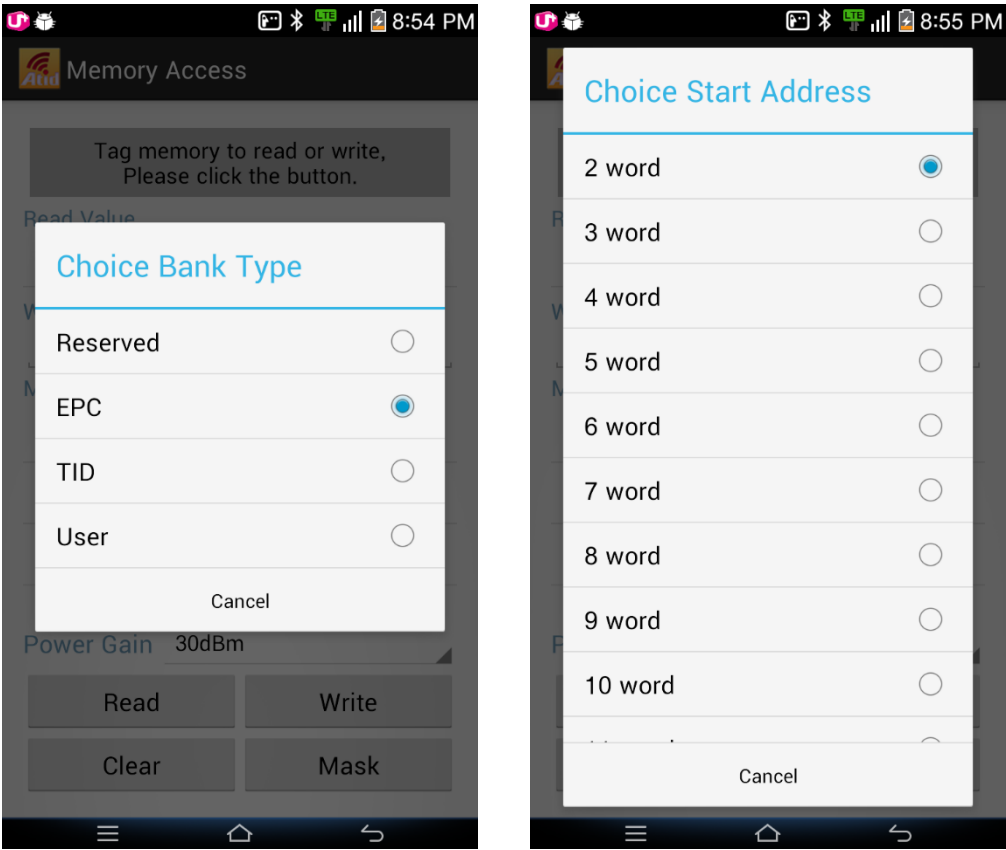
Click the "Bank Type" which is for selection reading tag memory bank

TagType 6B of AT288N MA is not supported (f/w ver: ma.1.2.0.9B)




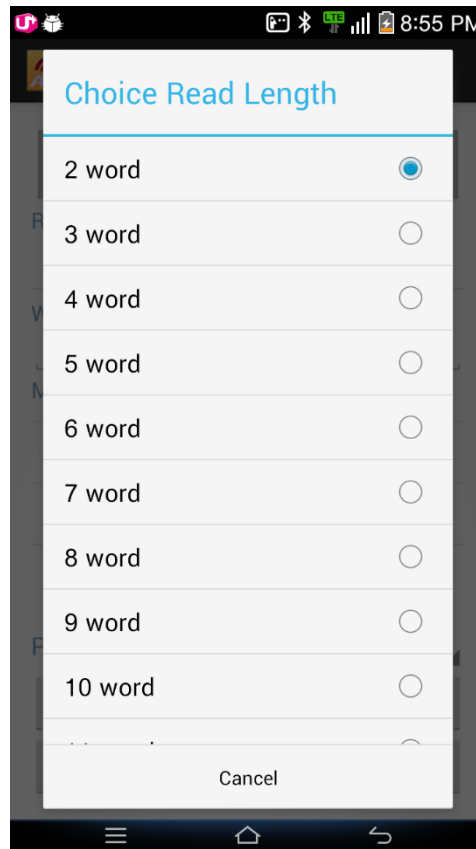
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7.1. Memory Access Option




'Start address" offset of the memory can be configured to read from the tag

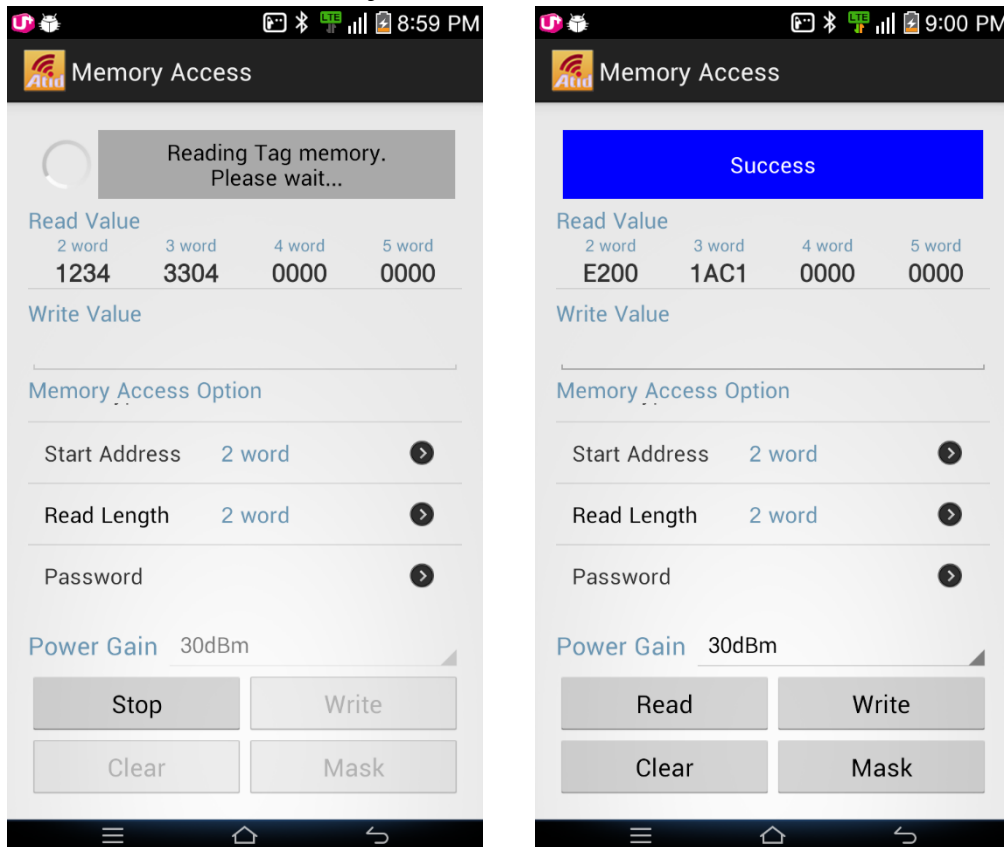
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When user choose the "Read Length" in the Read Memory, it is for setup the reading memory Length. If the tag has password, please input the password for reading that tag


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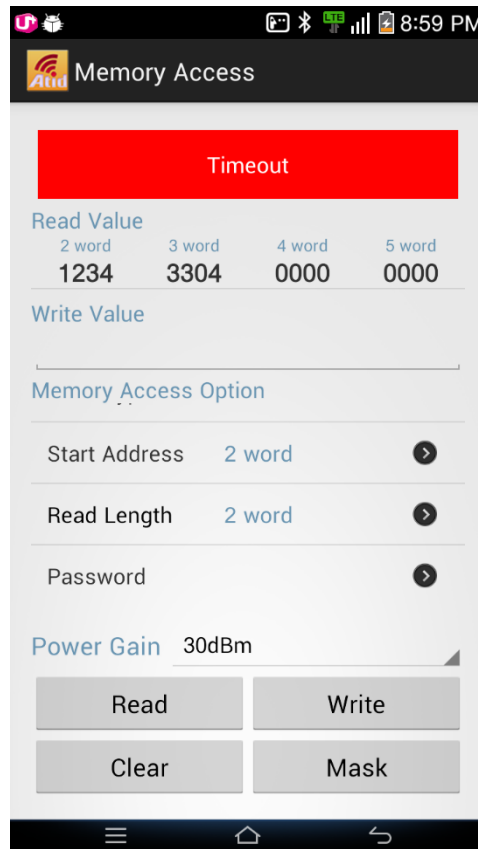
7.2. Reade Memory




When you press the "Read" button and it start reading, the "Read" button will be changed to "Stop" button and output the progress bar as left picture.

If user read the tag memory and read the results as shown in the figure at the top left of the display, above the value of the tag memory the 2byte units as the output format list.

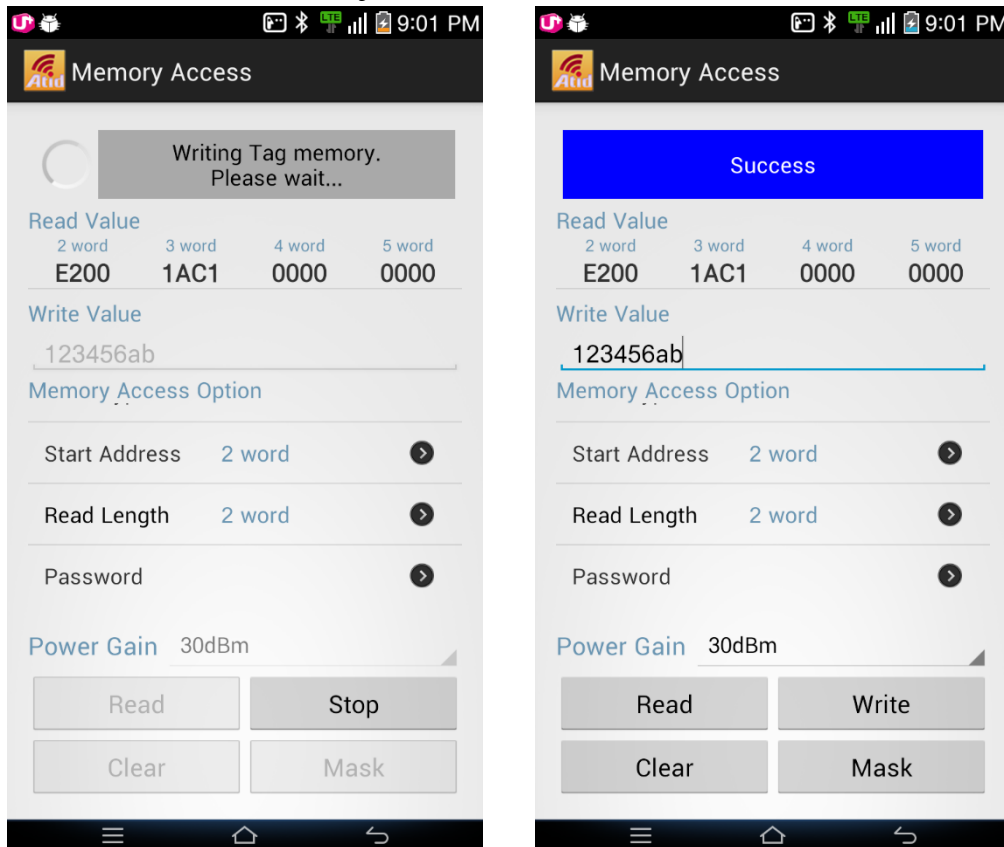
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If memory read or write failed, the screen as above, and the resulting output box turns read and the error message is output


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7.3. Write Memory



When you press the "write" button and it start writing, the "write" button will be changed to "Stop" button and output the progress bar as left picture.

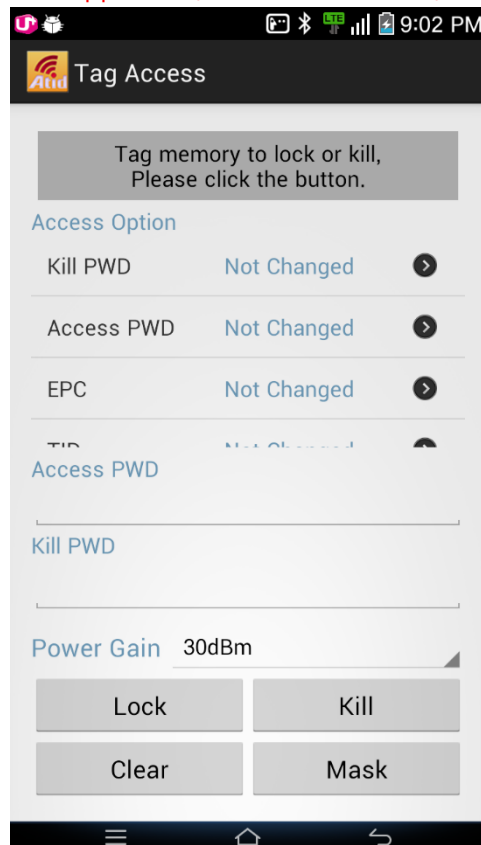
If the Tag memory writing is finished, it is shown the picture as left side.

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8. Tag Access

Press the 'Tag access' button on the main screen. Tag access screen appears as below

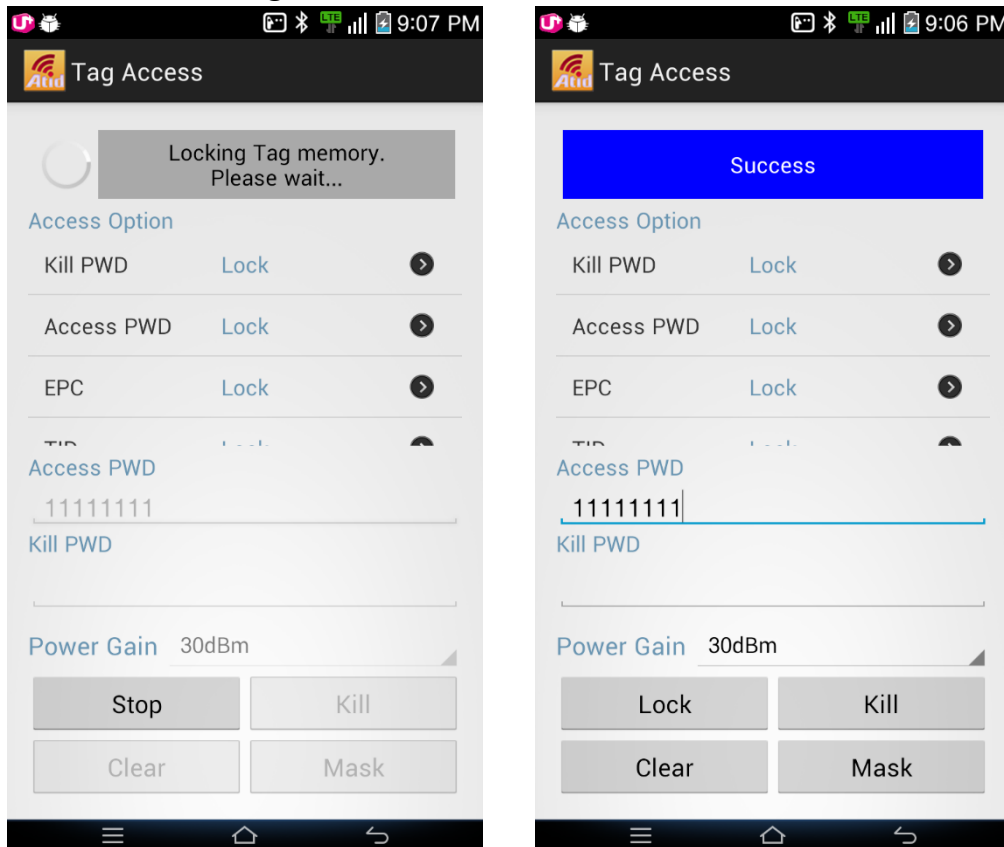
TagType 6B of AT288N MA is not supported (f/w ver: ma.1.2.0.9B)



The checkbox is for running Lock, Perm lock and Unlock
And user can set up the password for Access and kill tag

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8.1. Lock Tag

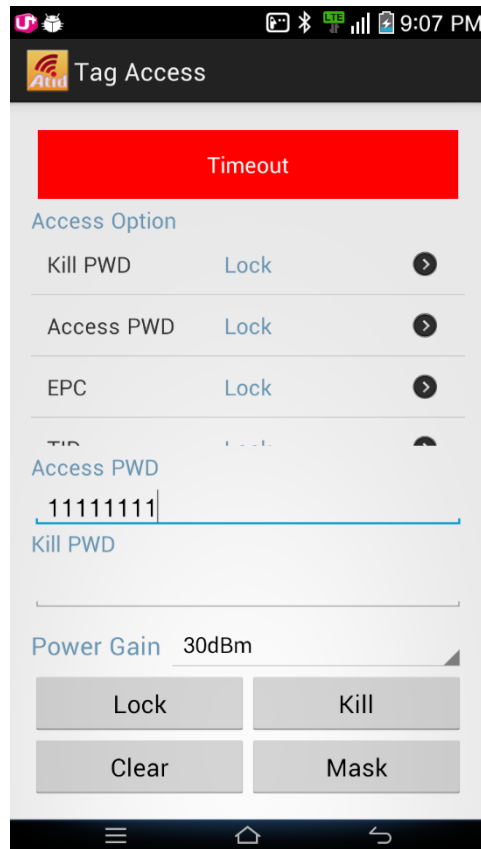


Access option lock tag's memory bank select, click the lock button and then check


If the Tag has password please input the access password. Until the tag lock, the lock button is changed "STOP" button and displayed progress bar as picture.

If 'Lock' is successful, the message output at the top of the left of the screen and the color will change to blue.

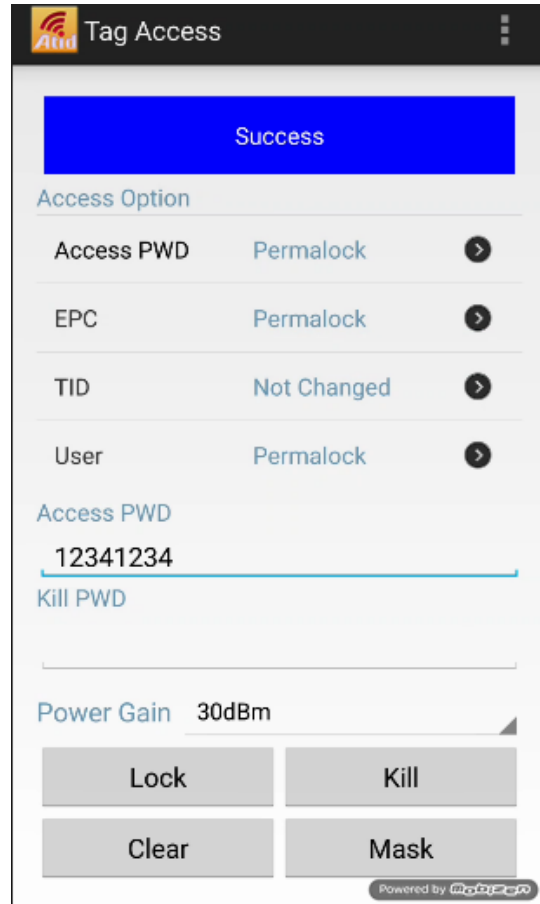
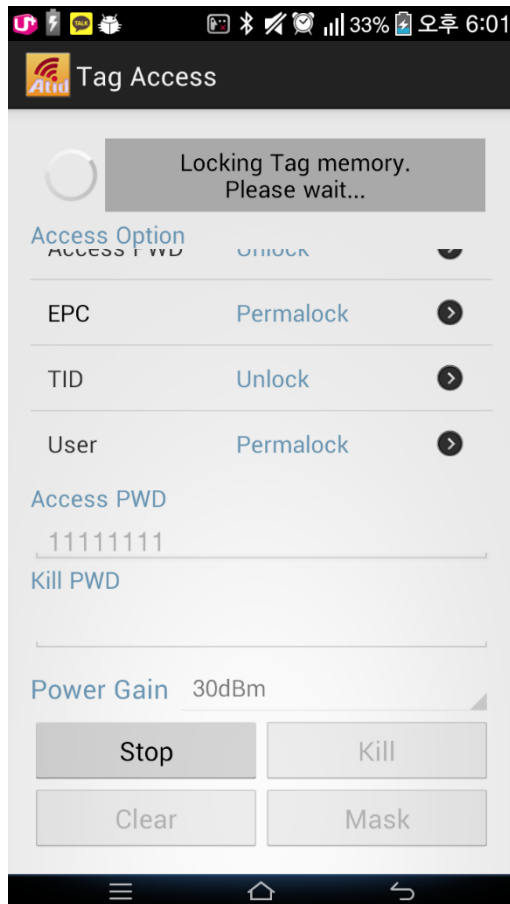
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If Lock, perma lock or Unlock is failed, user can see as above picture

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8.2. Permalock Tag




Click the Permalock in the access option

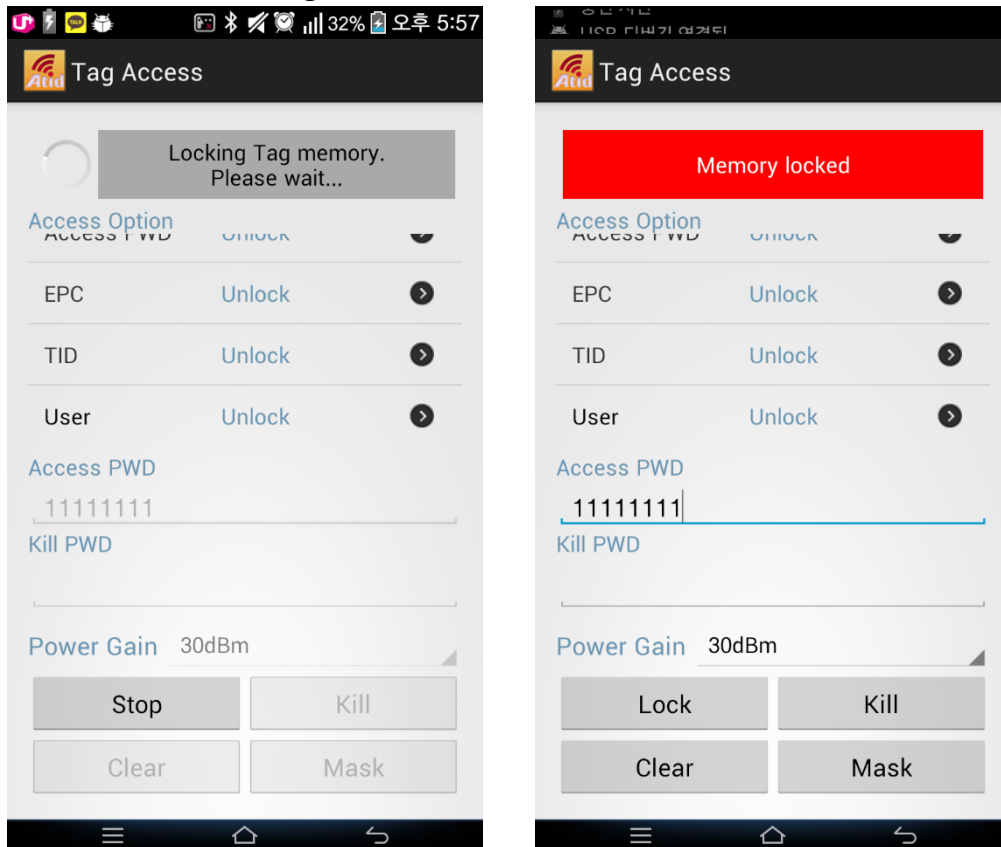
If Tag has password please input the access password.

permalock button will change to stop button until the tag running permalock and the progress bar is displayed at the top of the screen.

Permalock is successful, the message part of the output, shown at the top left of the screen and changes the blue color and the message is printed.

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8.3. Unlock Tag




Click the unlock in the Access option

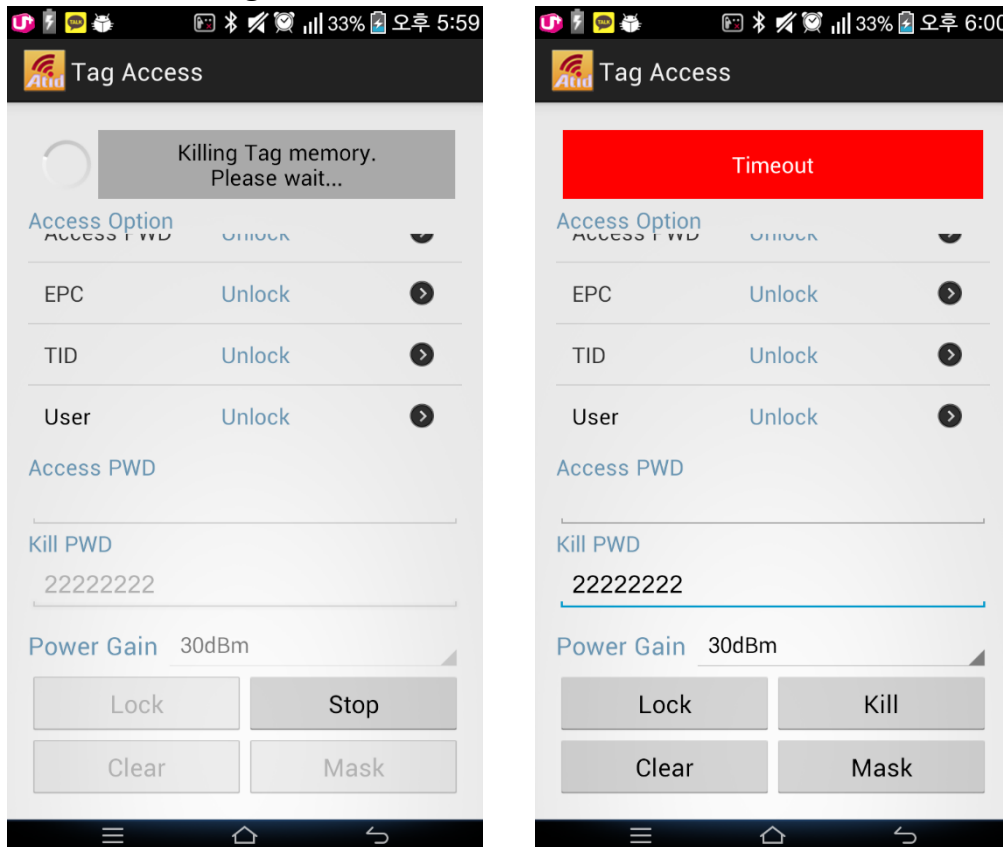
If Tag has password please input the access password.

Unlock button will change to stop button until the tag running unlock and the progress bar is displayed at the top of the screen.

Unlock is successful, the message part of the output, shown at the top left of the screen and changes the blue color and the message is printed.

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8.4. Kill Tag



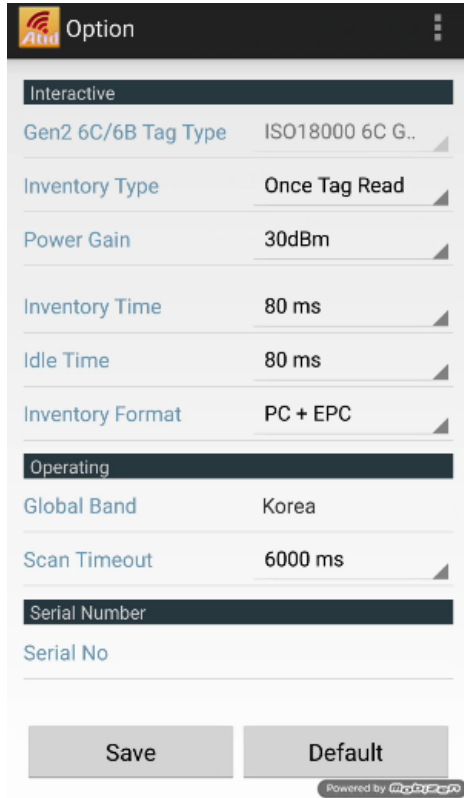
Input the Kill password and click the Kill button, Kill button will change to stop button until the tag destroyed, and the progress bar is displayed at the top of the screen.

Kill is successful, the message part of the output, shown at the top left of the screen and changes the blue color and the message is printed.

AT288N MA is not supported (f/w ver: ma.1.2.0.9B)


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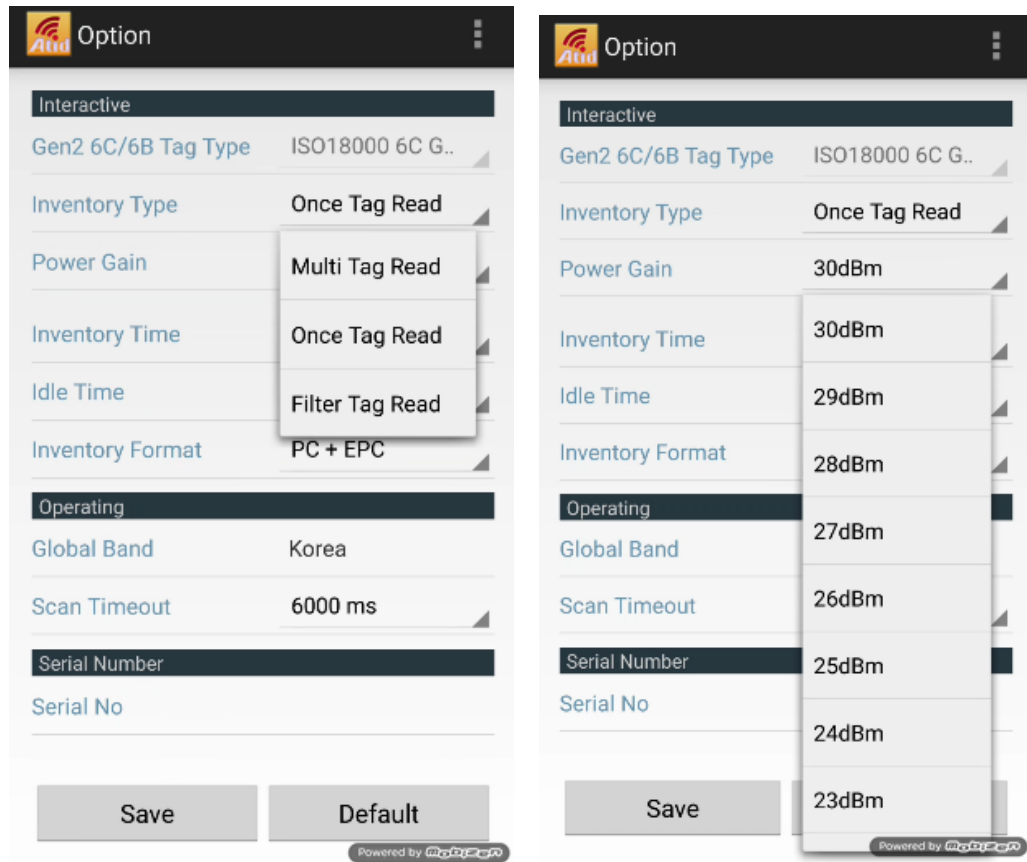
9. Option



Option screen can be different depending on the type of AT288, usual AT288 device options will be left side of picture but for the JAPAN customer's AT288 device cannot set up the Global band so JAPAN customer cannot see Global band option as right side pictures.

AT288N MI is not supported in TagType 6B

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Right side of the screen is for choosing Tag type of AT288 which device can read or not

Left side of the screen is for choosing to read tag Multi or single way.


Multi Tag read is reading many Tags continually and it is possible to read overlap.

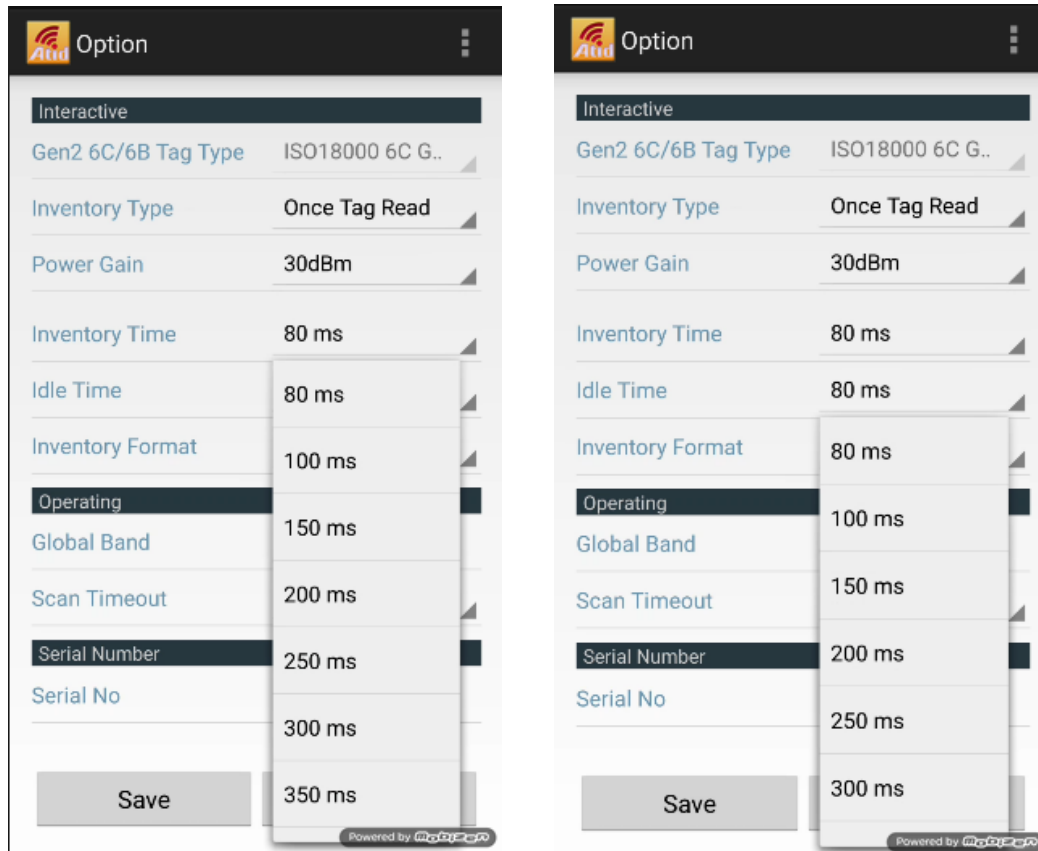
Once Tag Read is reading only one tag and stop reading.

Filter Tag Read is reading many Tags continually but it is not possible to read overlap.

Right side of screen is that select device antenna power gain.


But, AT288N MA is not supported in Filter Tag Read (f/w ver: ma.1.2.0.9B)

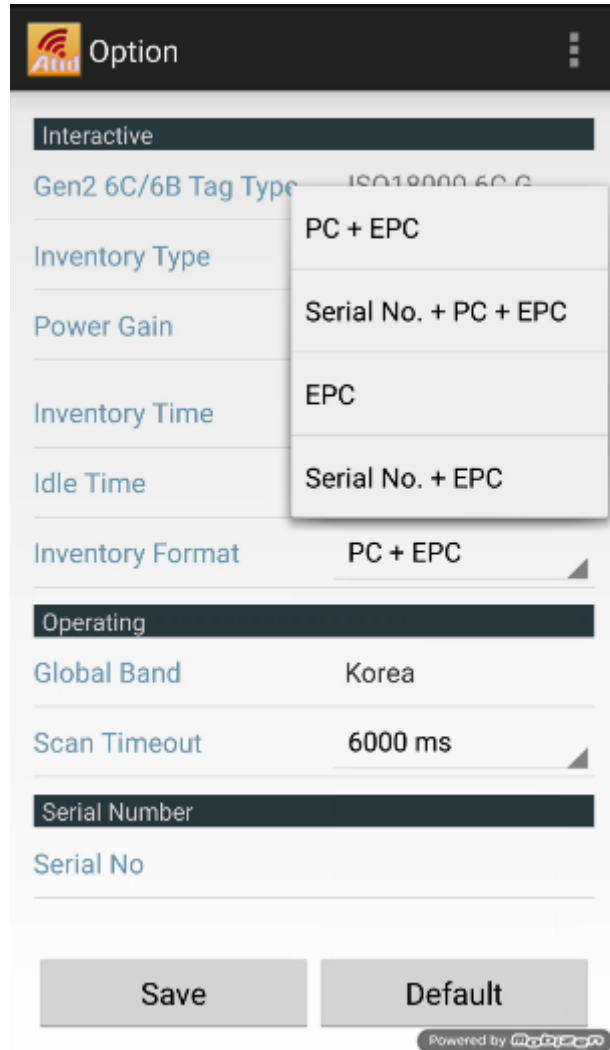
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Left side of screen is that set up inventory performing time during the inventory.
If user set up 0ms, inventory will not stop performing.

Right side of screen is that set up break time after inventory performing once
If user set up 0ms, inventory will not stop performing.

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Option

Interactive

Gen2 6C/6B Tag Type ISO18000-6C

Inventory Type PC + EPC

Power Gain Serial No. + PC + EPC

Inventory Time EPC

Idle Time Serial No. + EPC

Inventory Format PC + EPC

Operating

Global Band Korea

Scan Timeout 6000 ms

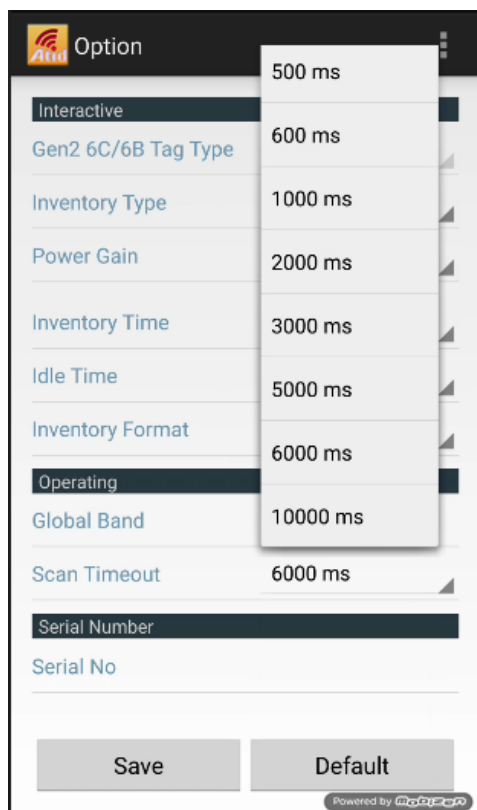
Serial Number

Serial No

Save Default


Powered by

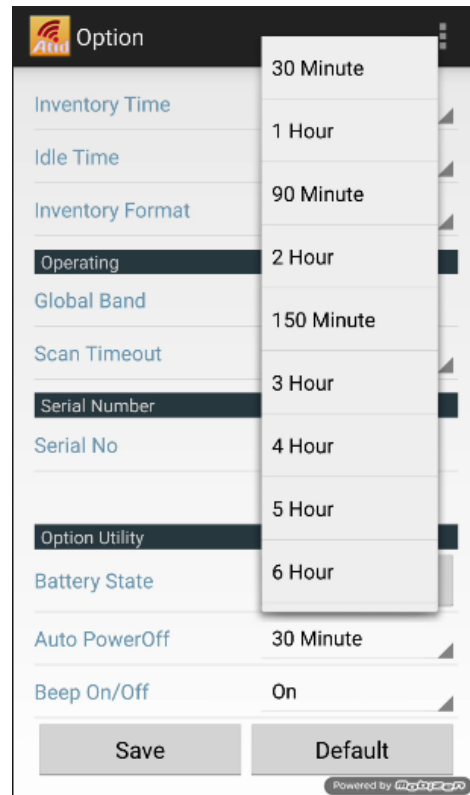
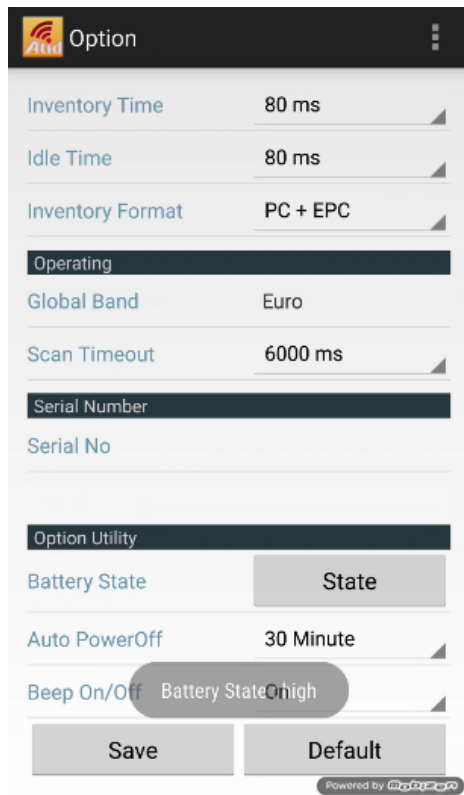
This screen is that set up data during inventory.



Set up the Timeout to get performing result data after Memory access like Read memory, write memory , Lock, Unlock , Permalock and Kil etc.


Serial Number is that device Serial number .

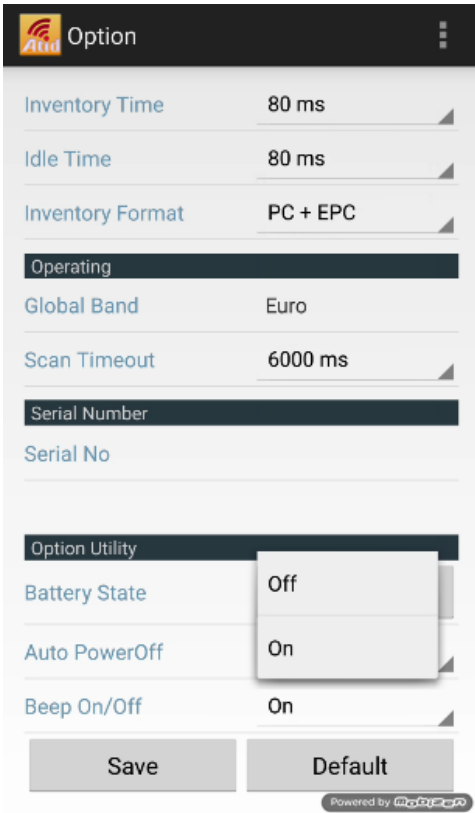
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Left screen is that shown battery condition (High, Low)

Right screen is that set up for PowerOff time during AT288N is not performing anything.

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This screen is that Turn on and off for the AT288N sound.