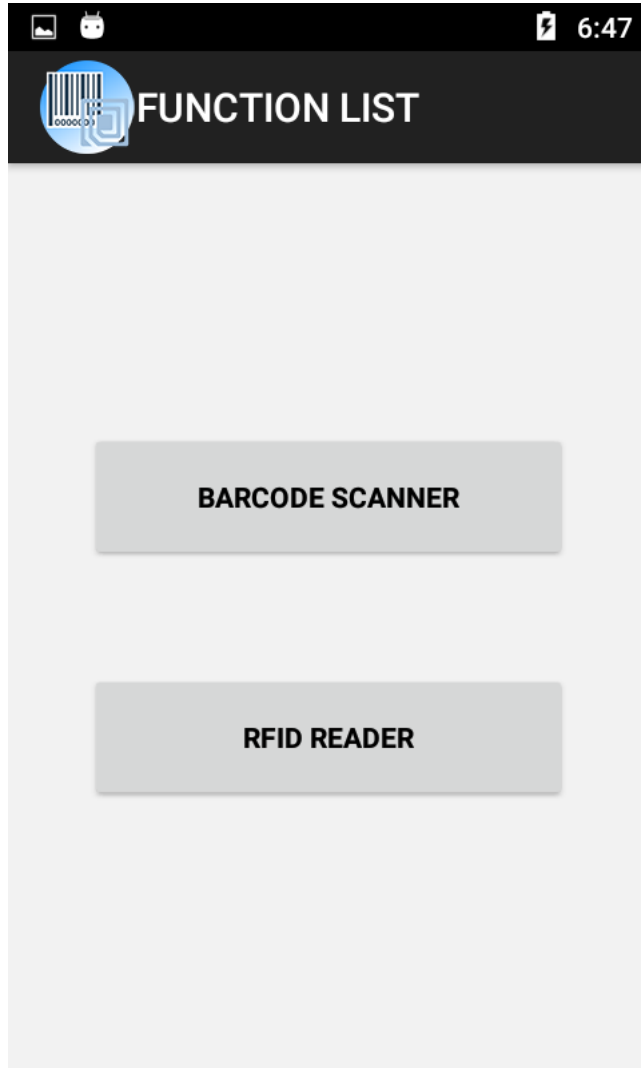


a611 UHF App Manual

✓ Main screen to select functions

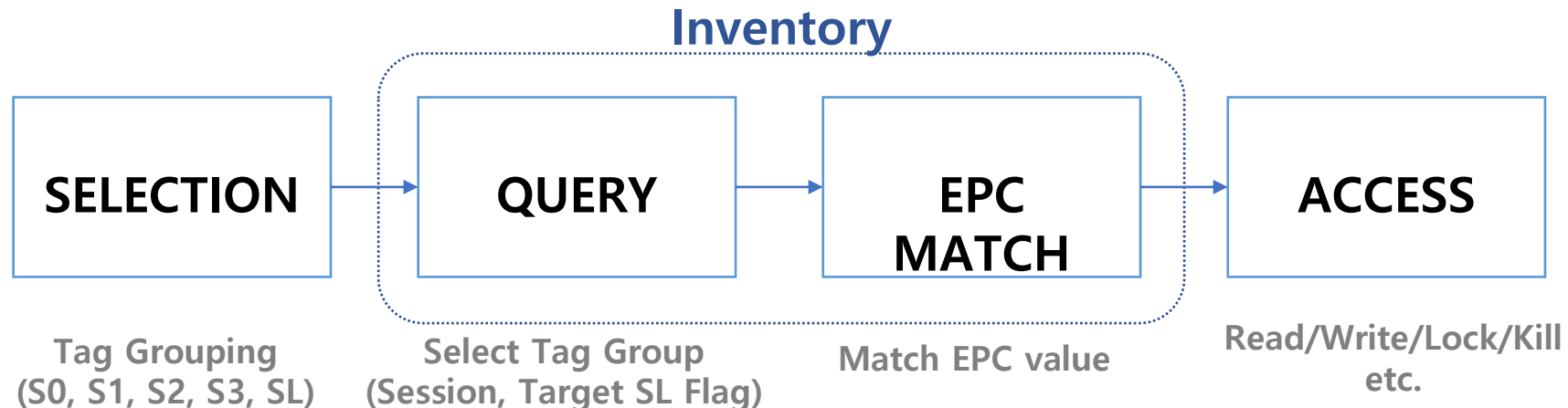


✓ Reference of technical terms in RFID

Technical terms

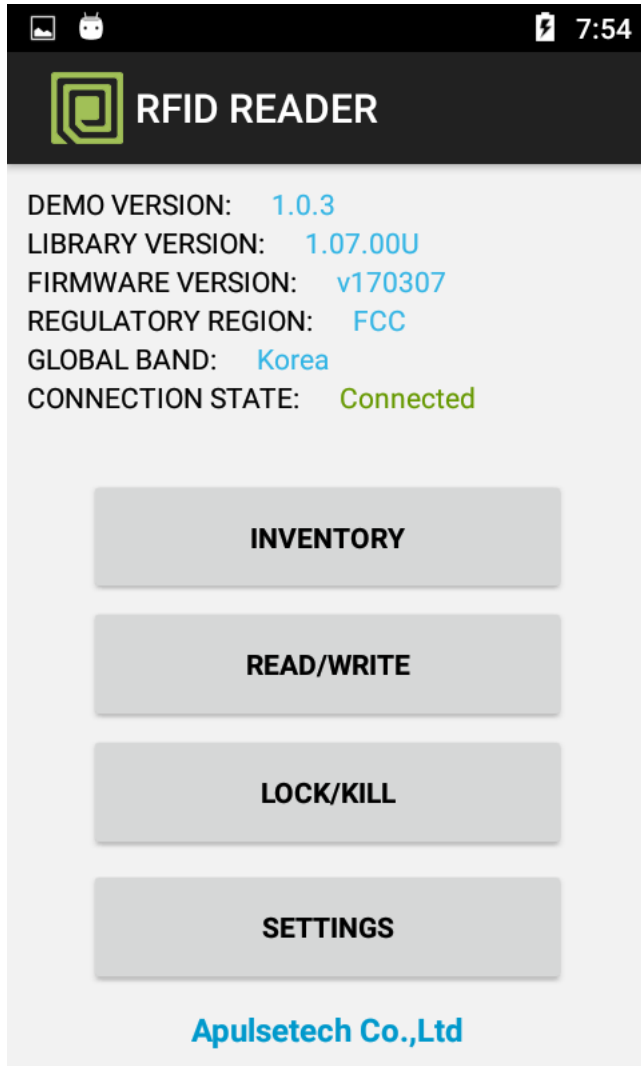
- Access Timeout: Time out when Read/Write on module or chip register.
Access Retry Interval: Retry interval value when fail to Read/Write in Access Timeout
- Tx On Time: Activation time for RF Tx . Affects to setting related to frequency or frequency hopping.
- Tx Off Time: Deactivation time for RF Tx. Affects to setting related to frequency or frequency hopping.
- Dwell Time: Dwelling time for Logical Antenna
- Singulation: Algorithm for inventory of Tag data (specific).

RFID Commend Sequence

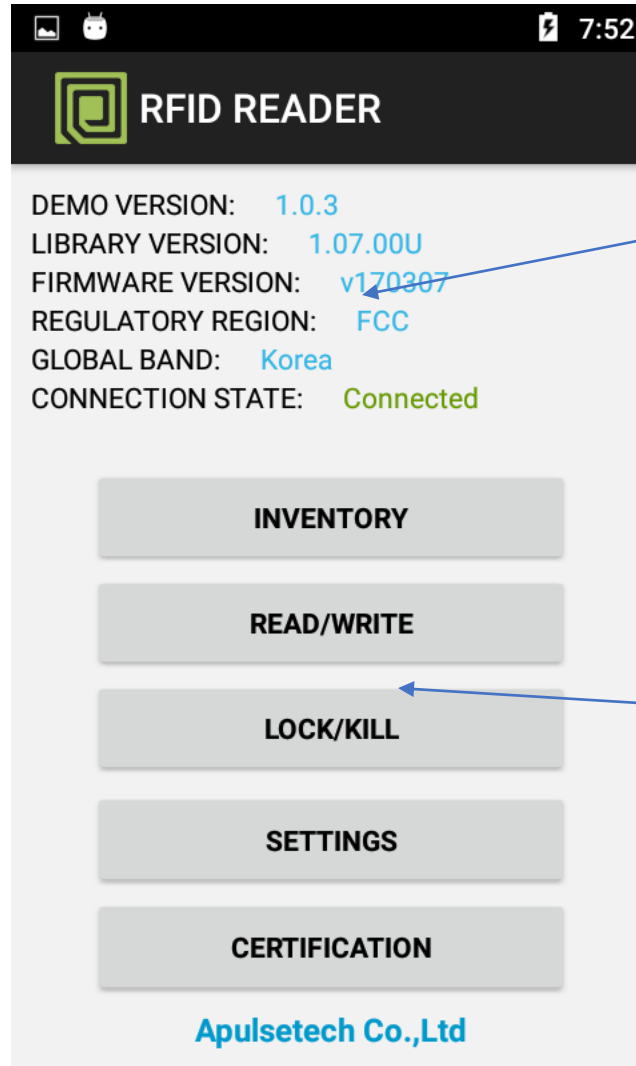


✓ Main screen of RFID READER App

Admin. Mode Locked



Admin. Mode Unlocked



Information

1. DEMO VERSION
2. LIBRARY VERSION
3. FIRMWARE VERSION
4. REGULATORY REGION
5. GLOBAL BAND
6. CONNECTION STATE

Function Menu

1. INVENTORY
2. READ/WRITE
3. LOCK/KILL
4. SETTINGS
5. CERTIFICATION

✓ INVENTORY Screen

Previous Page

Go back to previous page

Time/ Speed status

1. Elapsed Time : Time passed once reading
2. Speed : Instant reading speed
3. Avg. Speed: Average reading speed

Tag list window

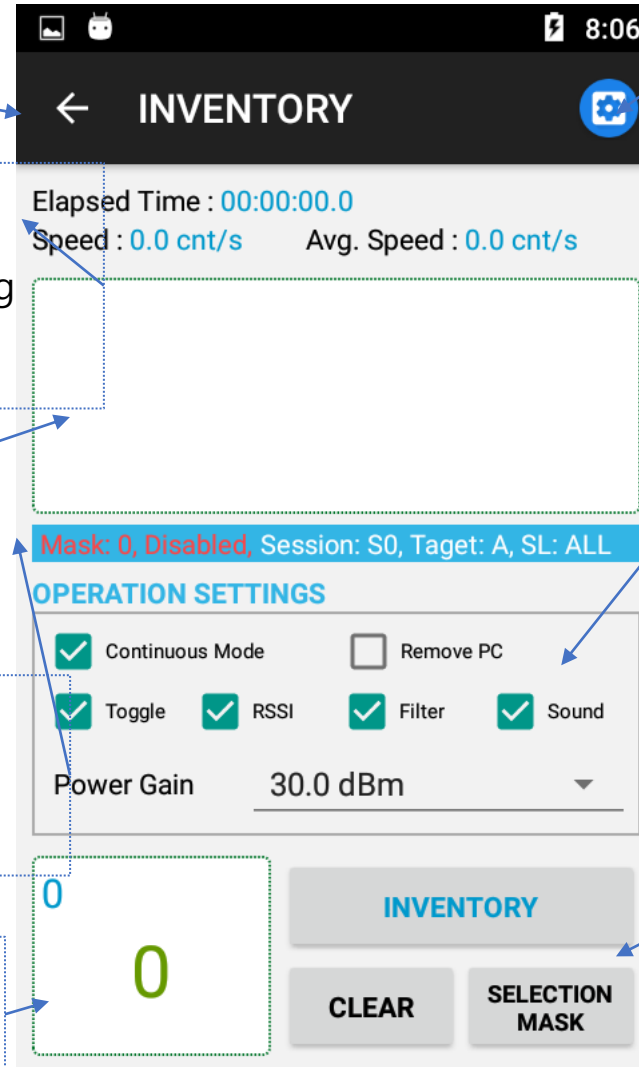
List of read tags

SELECTION MASK Status

Indication of SELECTION and Inventory setting status

Tag number

Above 0: Total read tag number
Center 0: Tag number(By Filtered or not)



Settings

Go to Settings

Setting values

1. Continuous Mode: Continuous reading
2. Remove PC: Remove PC information
3. Toggle: Toggles Inventory target A/B
4. RSSI: Indication of signal strength information
5. Filter: Filter of duplicated tag
6. Sound: Sound on/off when read
7. Power Gain: RF power adjustment

Function button

1. INVENTORY: Start/ Stop to inventory of tag
2. CLEAR: Clear all read tag list on the screen
3. SELECTION MASK: Set tag selection and query

✓ INVENTORY Screen – How to filter

No Filtering option

Elapsed Time : 00:00:04.5
Speed : 72.0 cnt/s Avg. Speed : 63.7 cnt/s

3000E20090097708002618505416 RSSI : -60.9
20222220D2CB4851B0C RSSI : -47.3
3000E20090097708002617705CCE RSSI : -51.4

Mask: 0, Disabled, Session: S0, Target: A, SL: ALL

OPERATION SETTINGS

Continuous Mode Remove PC
 Toggle RSSI Filter Sound

Power Gain 30.0 dBm

287
287

INVENTORY CLEAR SELECTION MASK

Select Filtering option

Elapsed Time : 00:00:08.0
Speed : 64.0 cnt/s Avg. Speed : 72.0 cnt/s

3000E2009009770800261700659B RSSI : -70.0	85
3000E20090097708002618505416 RSSI : -60.1	148
3000E20090097708002617705CCE RSSI : -53.3	170

Mask: 0, Disabled, Session: S0, Target: A, SL: ALL

OPERATION SETTINGS

Continuous Mode Remove PC
 Toggle RSSI Filter Sound

Power Gain 30.0 dBm

572
4

INVENTORY CLEAR SELECTION MASK

✓ SELECTION MASK Setting

SELECTION Mask Use or not

Check to use Selection Mask Setting before inventory

SELECTION Mask Setting List

List of setting list applies during inventory.

Inventory Setting Buttons

1. SAVE: Save changed settings
2. CANCEL: cancel or back to setting

SELECTION

SELECTION SETTINGS

Use Selection Mask 1 Entry(s)

SL, Assert SL or inventoried → A (+)
Deassert SL or inventoried → B, EPC

ADD REMOVE CLEAR

INVENTORY SETTINGS

Session S0

Target A

SL Flag ALL

SAVE CANCEL

SELECTION Setting Buttons

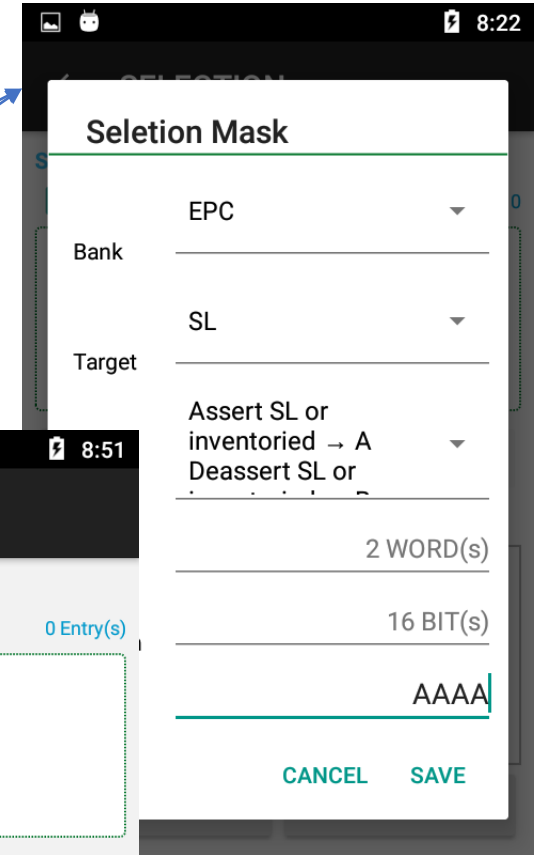
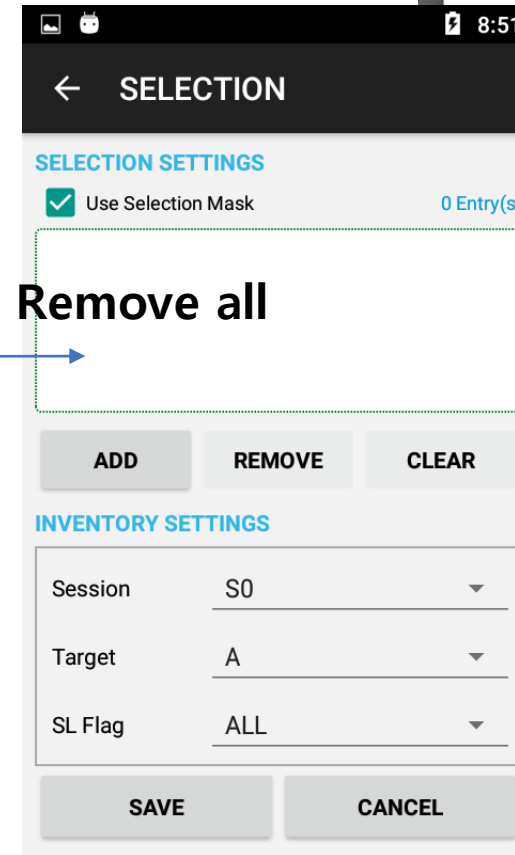
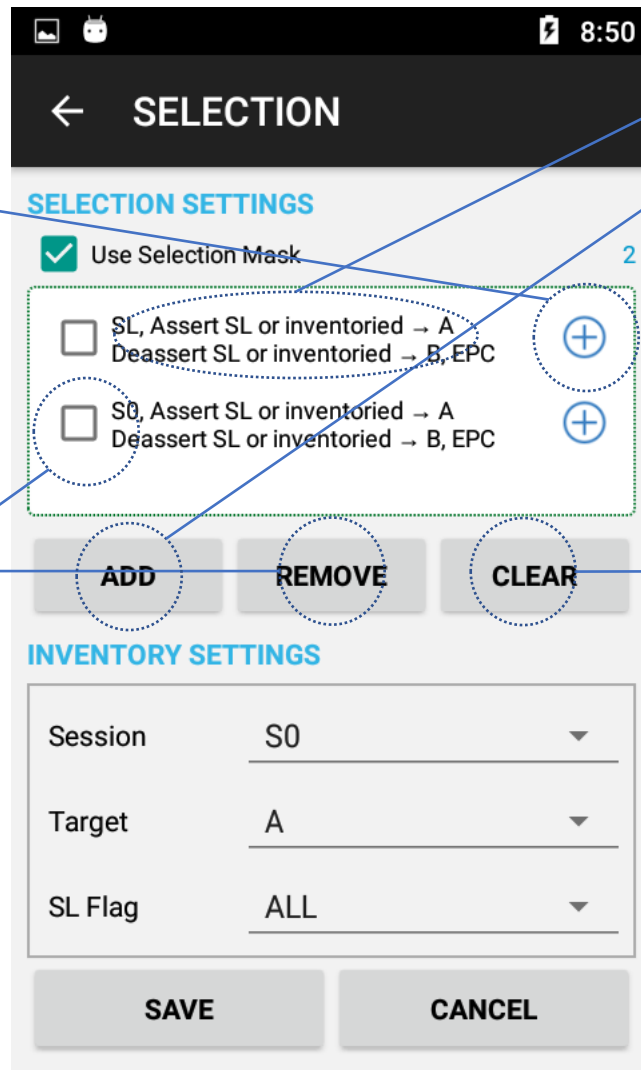
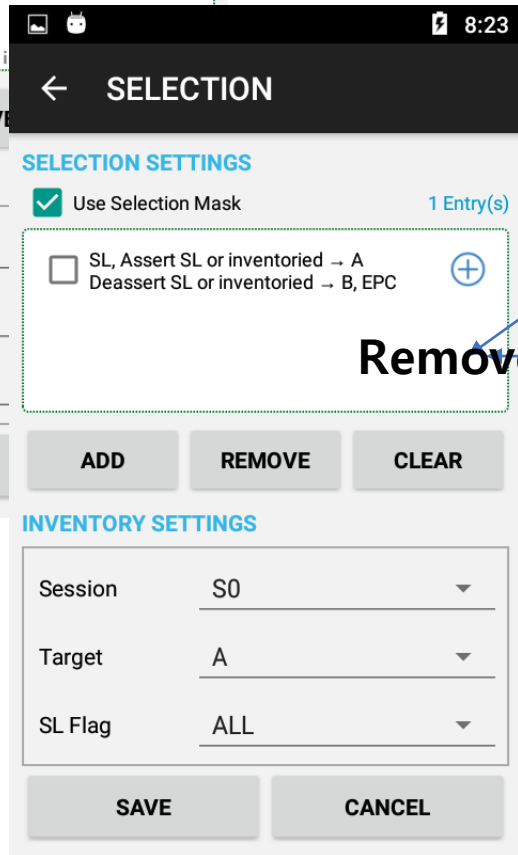
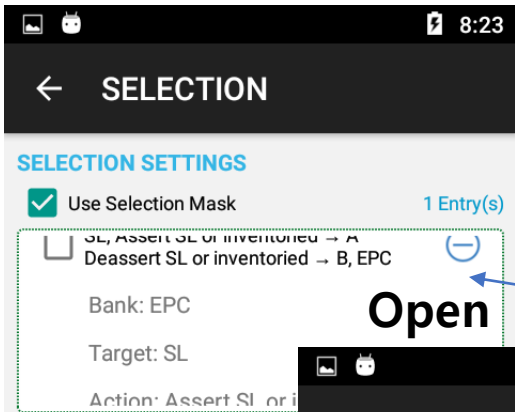
1. ADD: Add new SELECTION setting
2. REMOVE: Remove selected setting
3. CLEAR: Remove All SELECTION setting

INVENTORY Settings

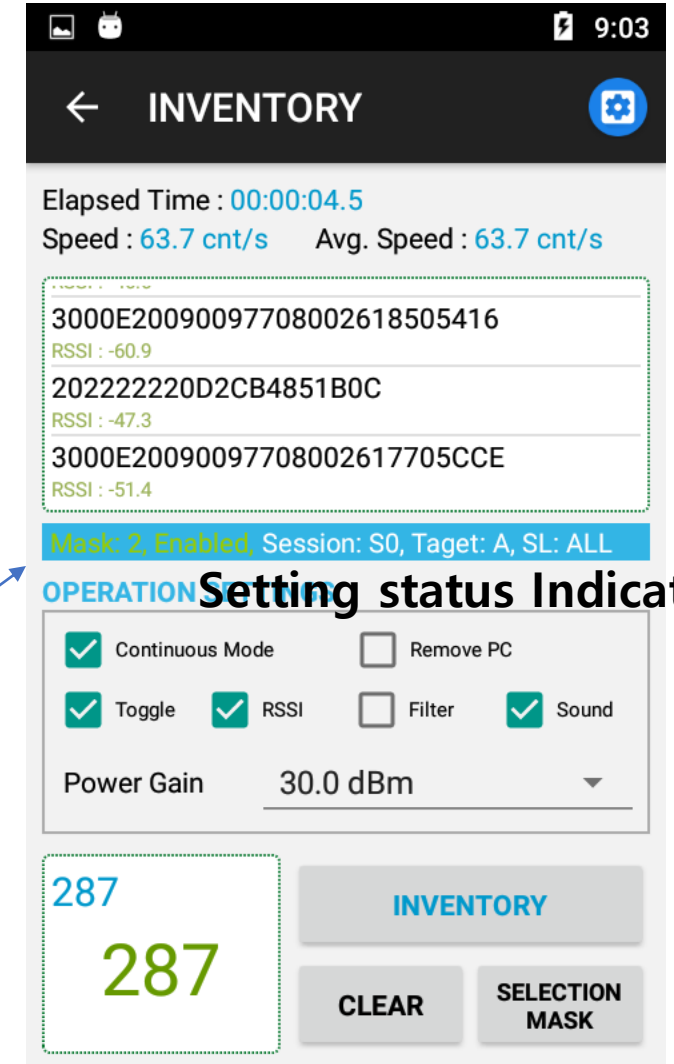
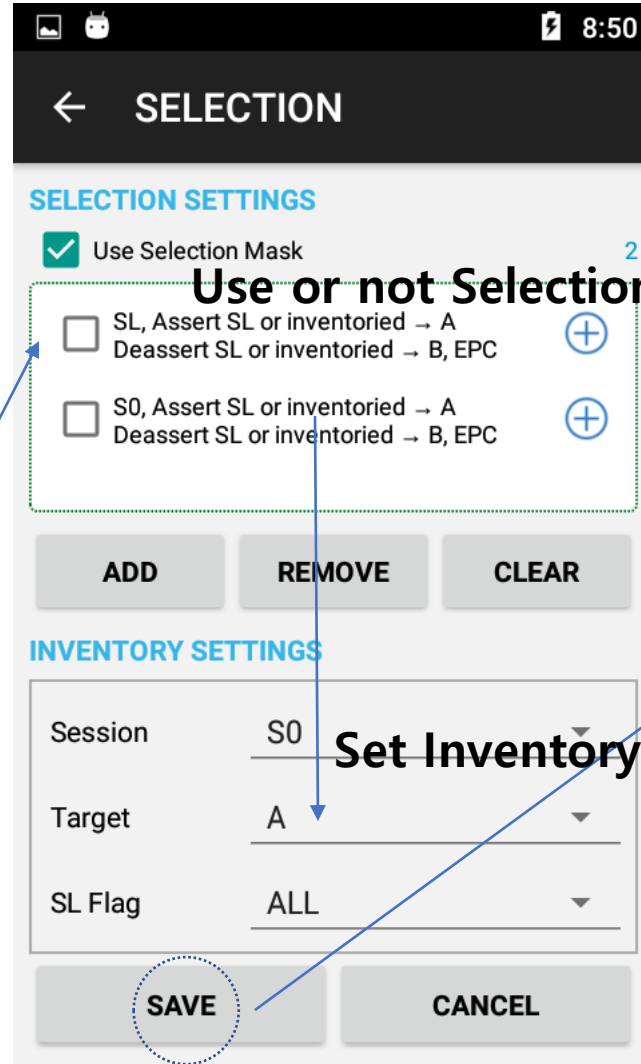
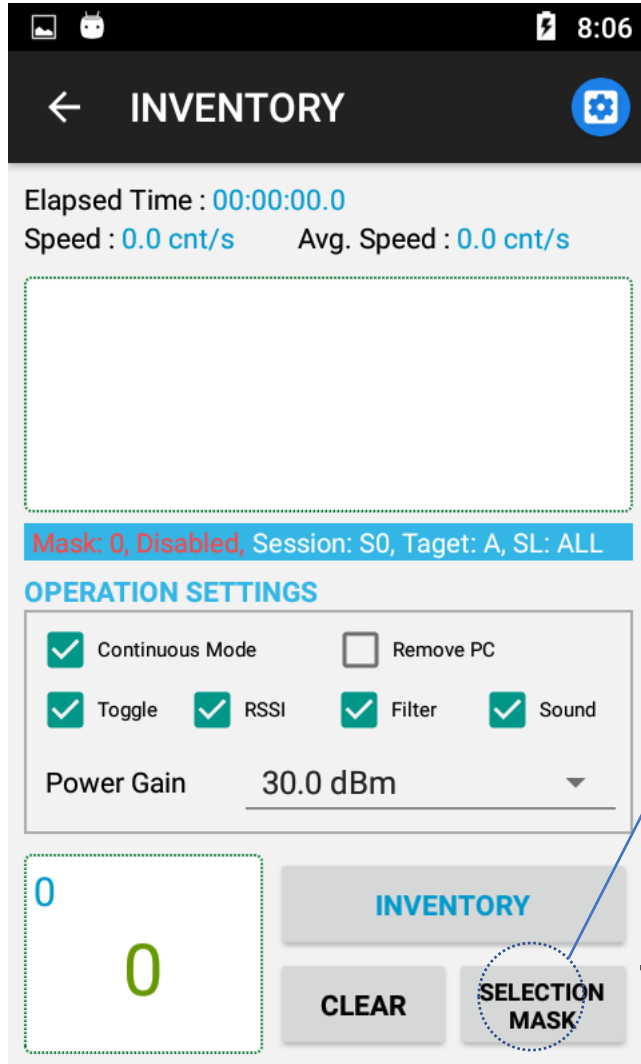
1. Session: Inventory session
2. Target: Inventory target
3. SL Flag: Inventory SL flag

✓ SELECTION MASK Setting

Add or change setting



✓ SELECTION MASK Setting



Use or not Selection Mast

Set Inventory

Setting status Indication

선택 마스크

✓ EPC MATCH Setting

*EPC Match setting value will be removed when out of Read/Write, Lock/Kill screen.

The image consists of three screenshots from an Android application, illustrating the EPC MATCH setting process. The first screenshot shows the 'INVENTORY' screen with a list of items. The 'Read/Write' and 'Lock/Kill' buttons are highlighted, with arrows pointing to the second and third screenshots respectively. The second screenshot shows the 'READ/WRITE' screen with 'OPERATION SETTINGS' and a 'CLEAR' button. The third screenshot shows the 'LOCK/KILL' screen with 'OPERATION SETTINGS' and a 'CLEAR' button. The EPC MATCH setting value is shown in a blue box in both the second and third screenshots. The text 'EPC MATCH setting' is written in blue above the second screenshot. The text 'Click and stay' is written in black above the first screenshot. The text 'Select' is written in black above the first screenshot. The text 'Enable to remove the setting by CLEAR button' is written in red at the bottom of the image.

INVENTORY

Elapsed Time : 00:00:01.2
Speed : 64.1 cnt/s Avg. Speed : 77.5 cnt/s

3000E20090097708002618505416
RSSI : -94.1

Read/Write 559B 22
Lock/Kill 23

OPERATION SETTINGS

Continuous Mode Remove PC
 Toggle RSSI Filter Sound
Power Gain 30.0 dBm

89
4

READ/WRITE

READ MEMORY WRITE MEMORY

0 1 2 3 4 5 6 7 8 9

Mask: 2, Enabled, Session: S0, Target: A, SL: ALL
EPC: Match, 96, 0, E20090097708002618505416

OPERATION SETTINGS

Bank EPC
Offset 1 WORD(s)
Length 7 WORD(s)

READ CLEAR SELECTION MASK ACCESS PASSWORD

LOCK/KILL

Mask: 2, Enabled, Session: S0, Target: A, SL: ALL
EPC: Match, 96, 0, E20090097708002618505416

OPERATION SETTINGS

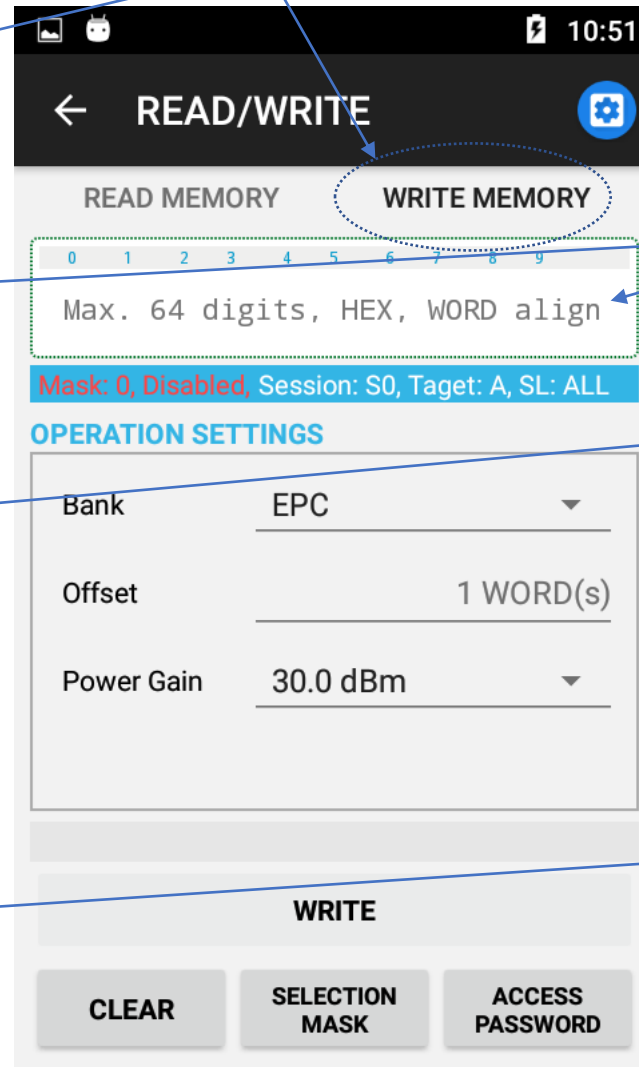
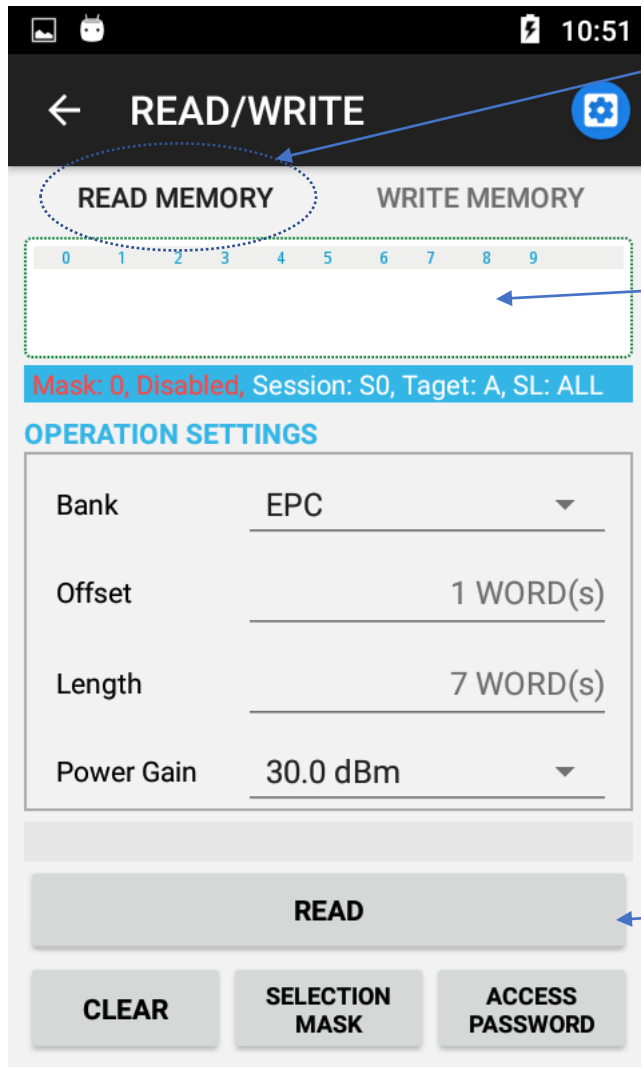
Power Gain 30.0 dBm

LOCK CLEAR ACCESS PASSWORD KILL KILL PASSWORD SELECTION MASK

Enable to remove the setting by CLEAR button

✓ READ/WRITE Screen

READ/WRITE selection tap



Output screen of Memory

Setting

1. Bank: Memory bank to select
2. Offset: Start position to read/write
3. Length: Memory length to read/write
4. Power Gain: RF Power adjustment

Function buttons

1. READ/WRITE: read/write memory
2. CLEAR: clear read/write value on the screen
3. SELECTION MASK: Set tag selection Mask and query
4. ACCESS PASSWORD: Set access password

✓ READ/WRITE 화면

Byte

← READ/WRITE

READ MEMORY WRITE MEMORY

0	1	2	3	4	5	6	7	8	9
20	22	22	22	0D	2C	B4	85	1B	0C
30	C3	0C	30						

Mask: 0, Disabled, Session: S0, Target: A, SL: ALL

OPERATION SETTINGS

Bank: EPC

Offset: 1 WORD(s)

Length: 7 WORD(s)

Power Gain: 30.0 dBm

Success

READ

CLEAR SELECTION MASK ACCESS PASSWORD

← READ/WRITE

READ MEMORY WRITE MEMORY

0	1	2	3	4	5	6	7	8	9

Mask: 0, Disabled, Session: S0, Target: A, SL: ALL

OPERATION SETTINGS

Bank: EPC

Offset: 1 WORD(s)

Length: 8 WORD(s)

Power Gain: 30.0 dBm

Invalid memory

READ

CLEAR SELECTION MASK ACCESS PASSWORD

← READ/WRITE

READ MEMORY WRITE MEMORY

0	1	2	3	4	5	6	7	8	9
E2	00	90	09						

Mask: 0, Disabled, Session: S0, Target: A, SL: ALL

OPERATION SETTINGS

Bank: EPC

Offset: 2 WORD(s)

Power Gain: 30.0 dBm

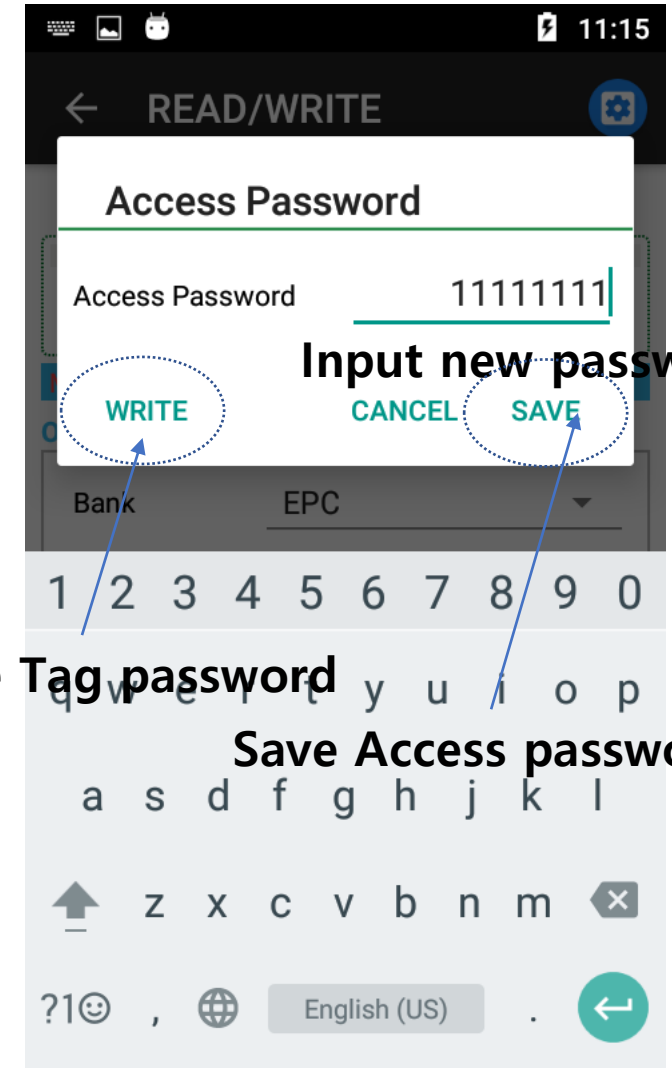
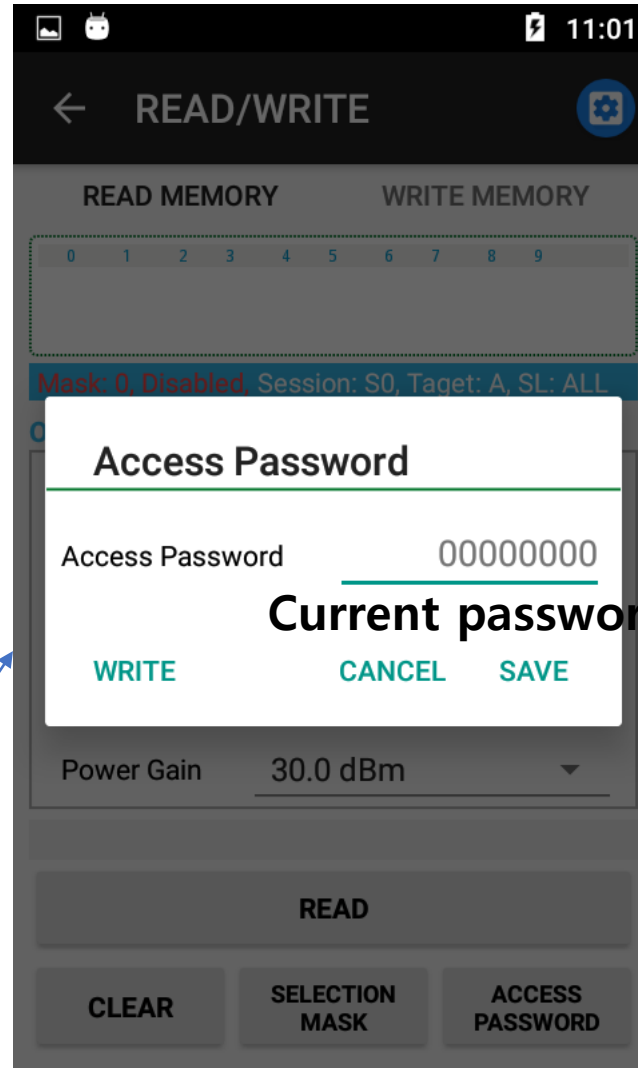
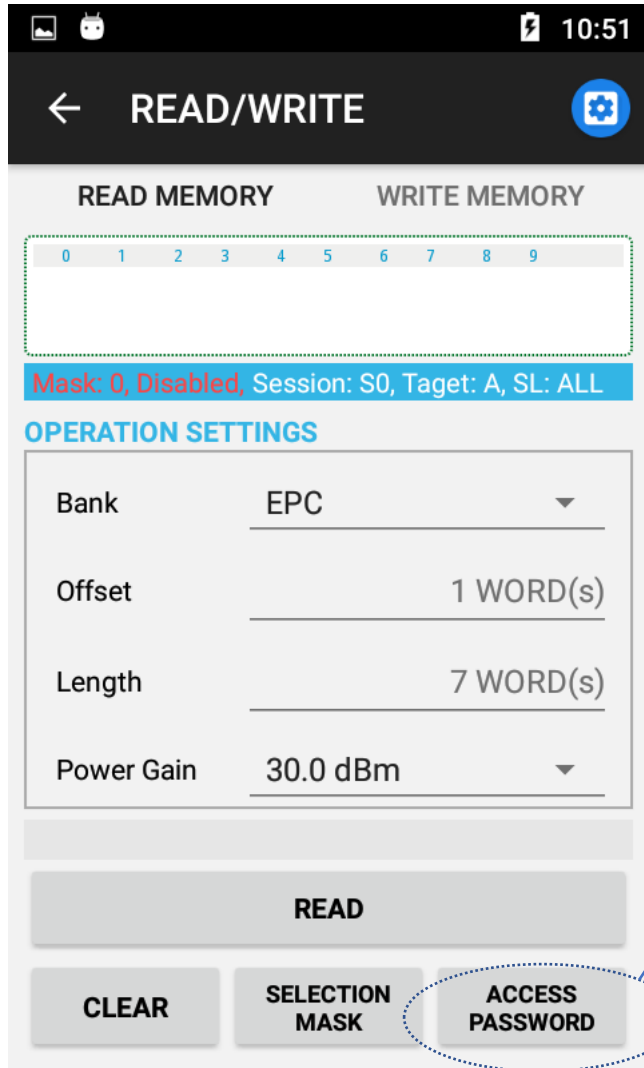
Success

WRITE

CLEAR SELECTION MASK ACCESS PASSWORD

Result indication of read/ write

✓ READ/WRITE 화면-ACCESS PASSWORD Setting



✓ LOCK/KILL Screen

Lock setting

1. Memory: Select memory to lock/unlock
2. Lock Operation: list of lock/unlock options
Unlock: Unlock memory
3. Perma Unlock: Permanent unlock
Lock: Lock memory
Perma Lock: Permanent lock

Operation settings

1. Power Gain: RF power adjustment

Mask: 0, Disabled, Session: S0, Target: A, SL: ALL

LOCK SETTINGS

Memory

Kill Pwd	Access Pwd	EPC	TID	User
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Lock Operation

<input type="radio"/> Unlock	<input type="radio"/> Unlock	<input type="radio"/> Unlock	<input type="radio"/> Unlock	<input type="radio"/> Unlock
<input type="radio"/> Perma Unlock	<input type="radio"/> Perma Unlock	<input type="radio"/> Perma Unlock	<input type="radio"/> Perma Unlock	<input type="radio"/> Perma Unlock
<input type="radio"/> Lock	<input type="radio"/> Lock	<input type="radio"/> Lock	<input type="radio"/> Lock	<input type="radio"/> Lock
<input type="radio"/> Perma Lock	<input type="radio"/> Perma Lock	<input type="radio"/> Perma Lock	<input type="radio"/> Perma Lock	<input type="radio"/> Perma Lock

OPERATION SETTINGS

Power Gain: 30.0 dBm

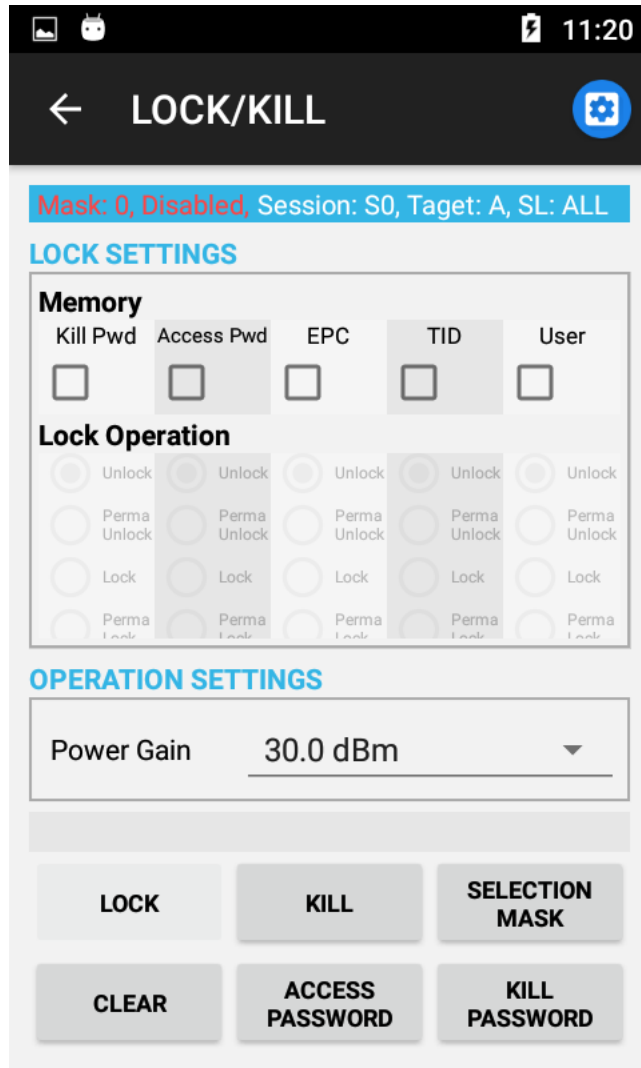
LOCK KILL SELECTION MASK

CLEAR ACCESS PASSWORD KILL PASSWORD

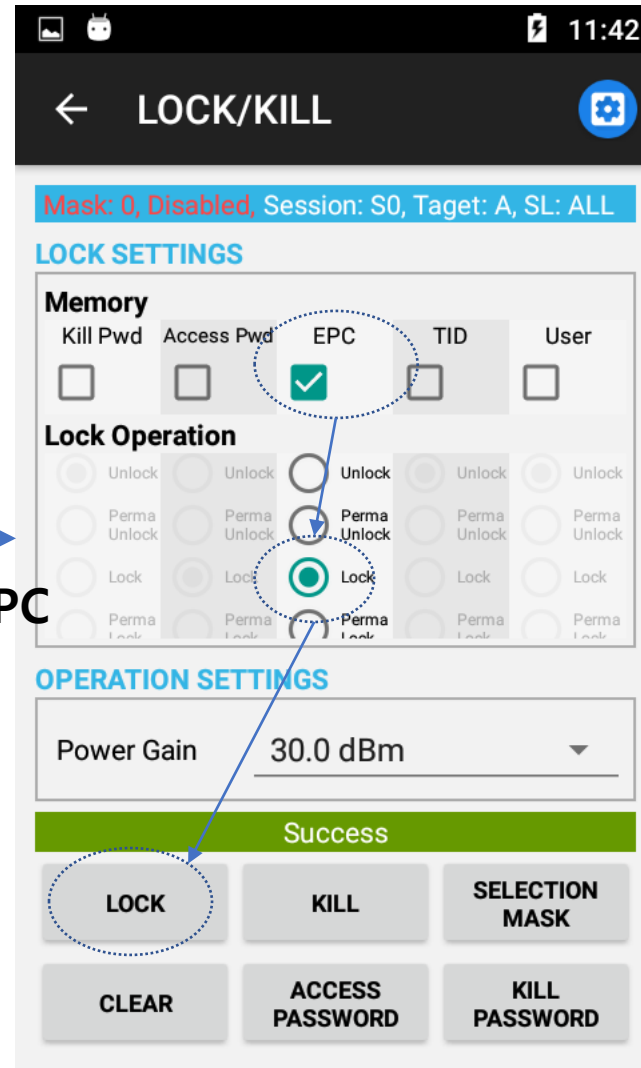
Function buttons

1. LOCK: Lock memory
2. KILL: Make a tag invalid
3. SELECTION MASK: Set selection Mask and query
4. CLEAR: Clear EPC Match and result
5. ACCESS PASSWORD: Set access password
6. KILL PASSWORD: Set Kill password

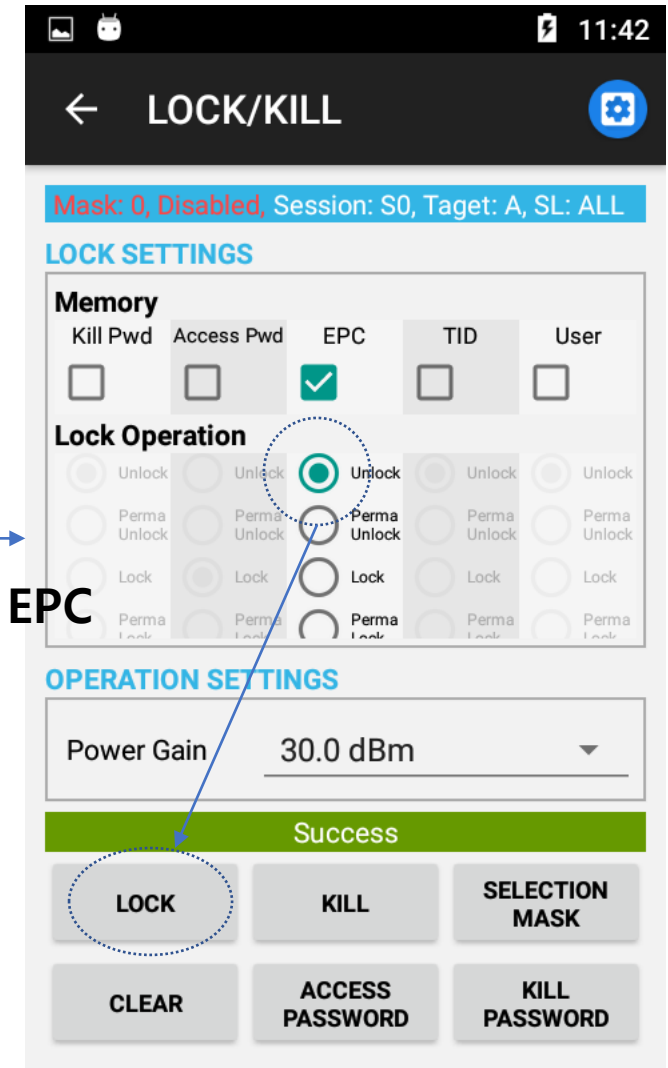
✓ LOCK/KILL screen-LOCK



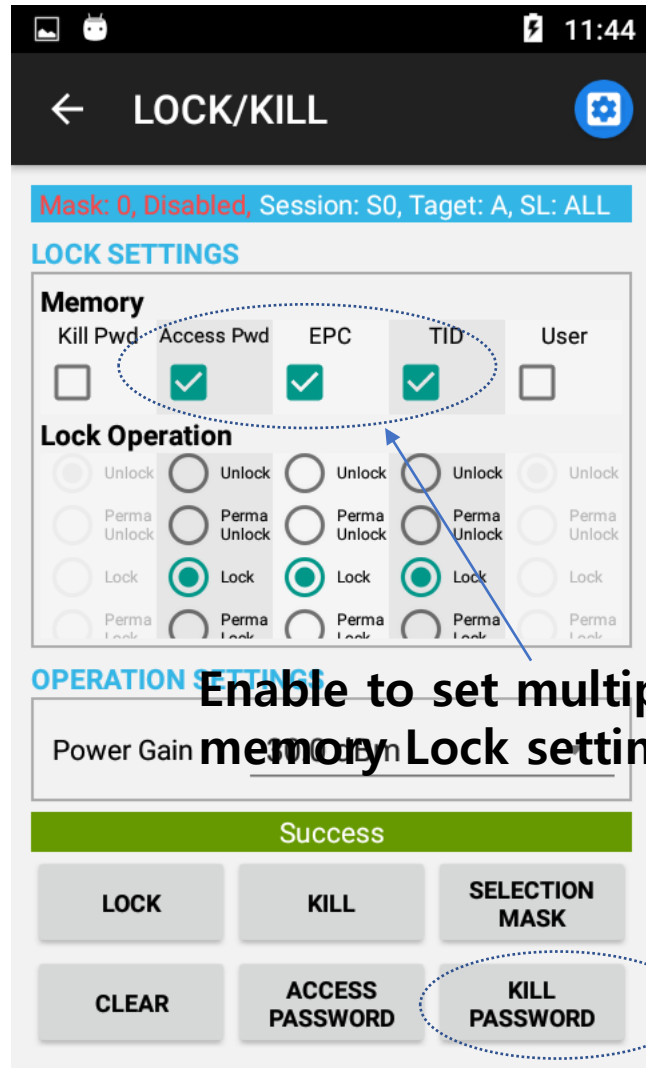
Lock EPC



Unlock EPC

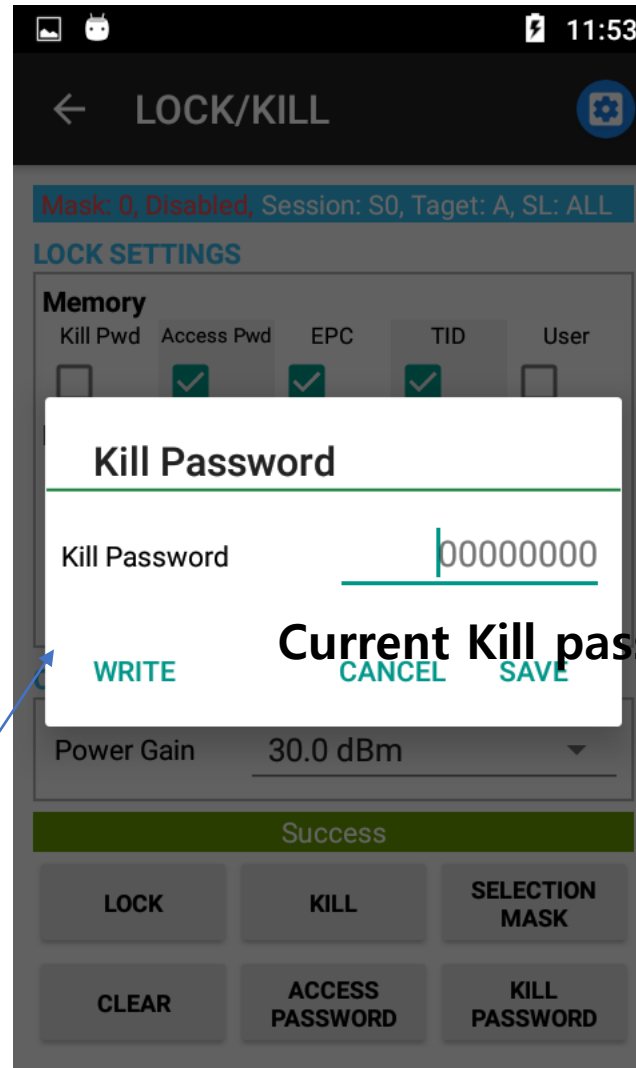


✓ LOCK/KILL Screen-KILL PASSWORD setting



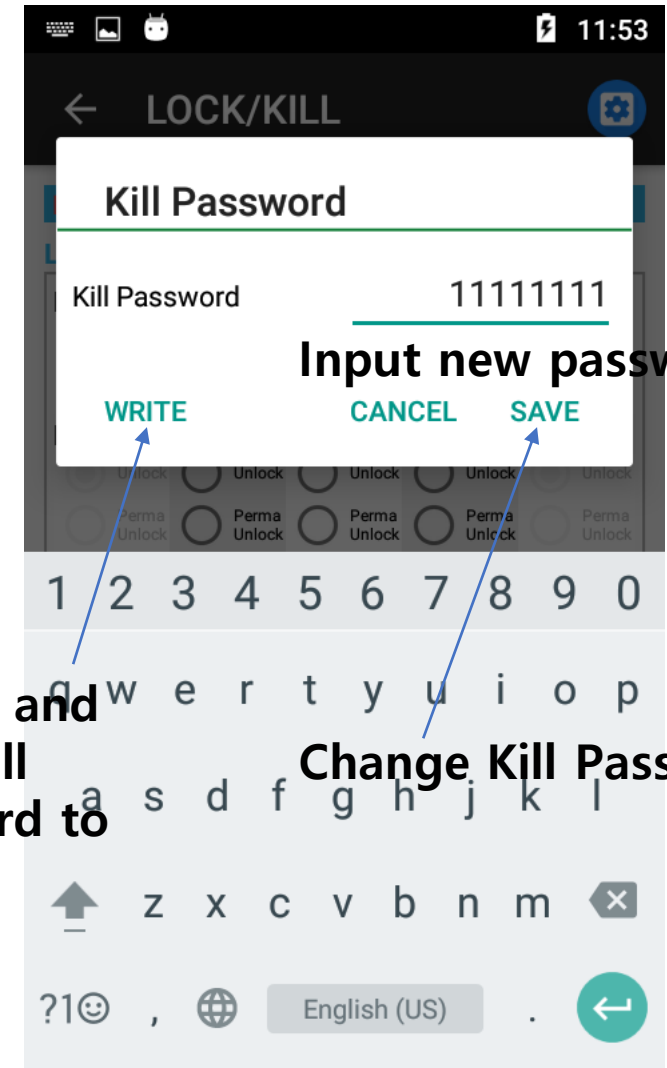
Enable to set multiple memory Lock setting.

click



Current Kill password

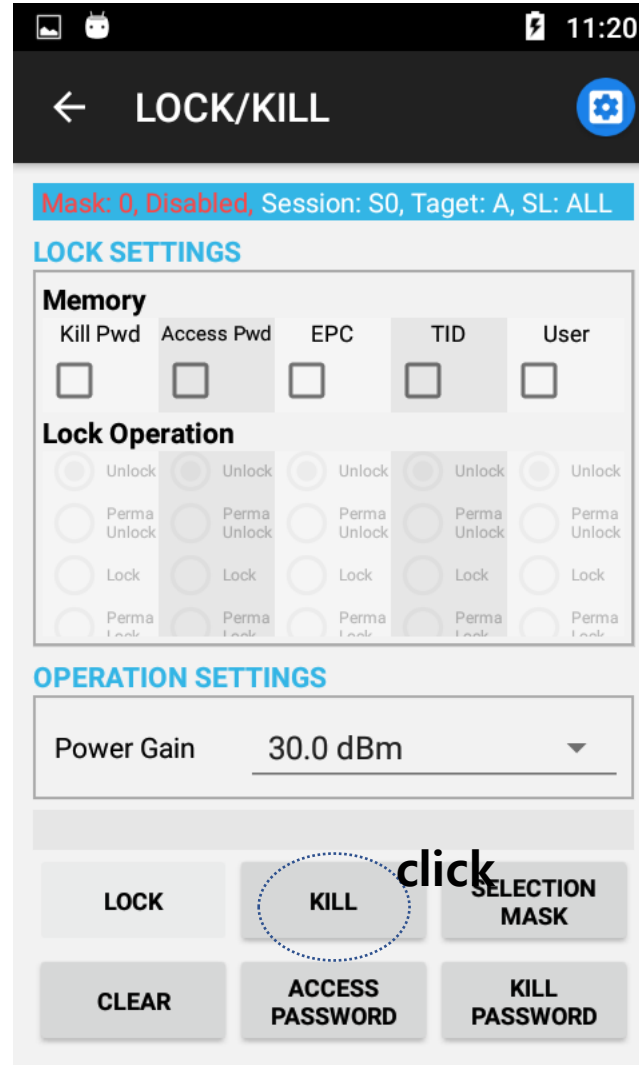
Change and write Kill password to tag



Input new password

Change Kill Password

✓ LOCK/KILL Screen-KILL



✓ SETTINGS screen

← SETTINGS

ACCESS SETTINGS

Timeout 3000 ms

Interval 100 ms

RF SETTINGS

Tx On Time 400 ms

Tx Off Time 0 ms

Power Gain 30.0 dBm

RF Channel 6 / 6 **SETTING**

ADMIN. SETTINGS

SAVE CANCEL

ACCESS Settings

1. Timeout: Read/Write timeout
2. Interval: retry interval value to Read/Write

RF Settings

1. Tx On Time: Activation time of RF Tx
2. Power Gain: RF Power adjustment
3. RF Channel: Set RF channel

ADMIN Settings
Admin function unlock

← SETTINGS

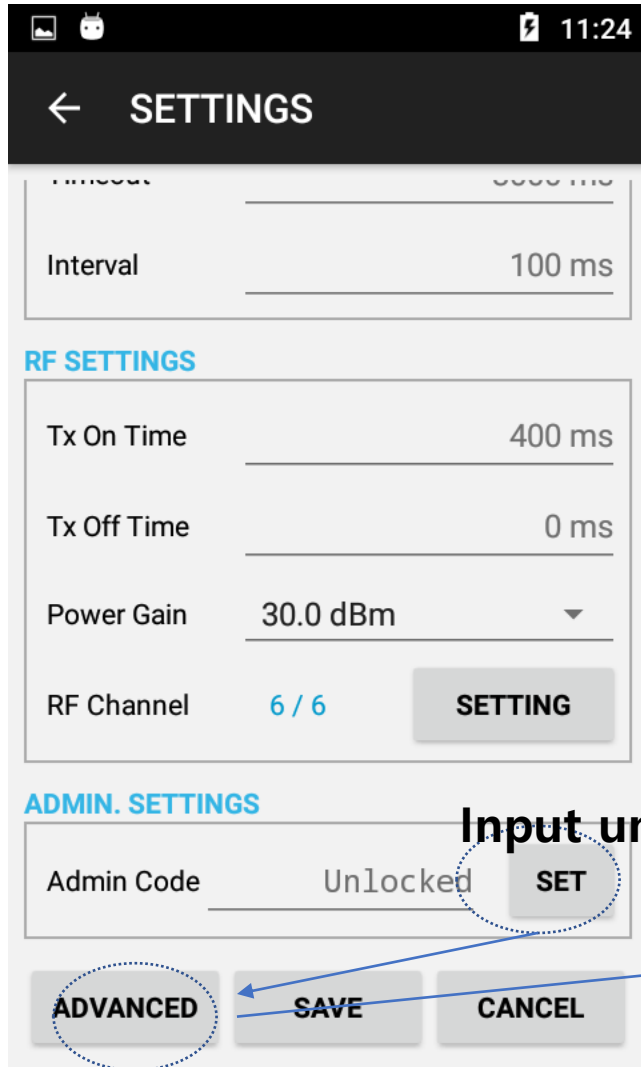
RF Channel Setting

<input checked="" type="checkbox"/>	Ch.0 917.300 MHz
<input checked="" type="checkbox"/>	Ch.1 917.900 MHz
<input checked="" type="checkbox"/>	Ch.2 918.500 MHz
<input checked="" type="checkbox"/>	Ch.3 919.100 MHz
<input checked="" type="checkbox"/>	Ch.4 919.700 MHz
<input checked="" type="checkbox"/>	Ch.5 920.300 MHz

CANCEL OK

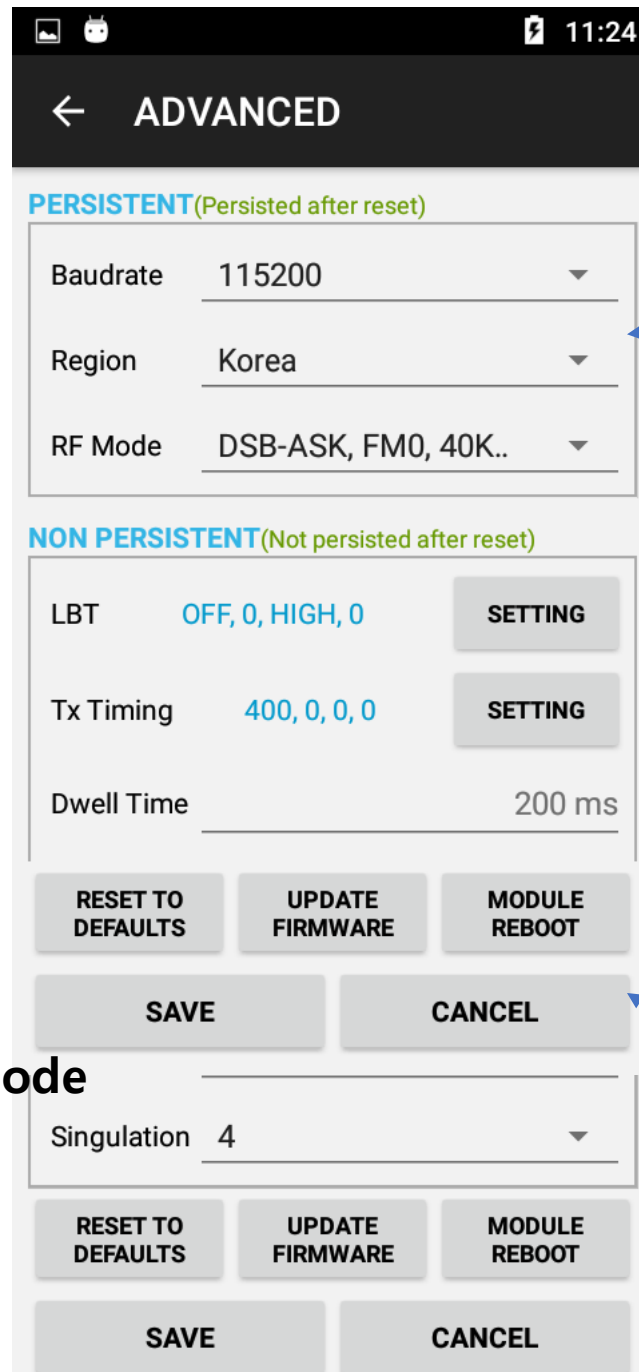
SAVE CANCEL

✓ ADVANCED Screen



Click

Input unlock code



PERSISTENT Setting

1. Baudrate: UART Speed
2. Region: Country setting
3. RF Mode: RF link profile setting

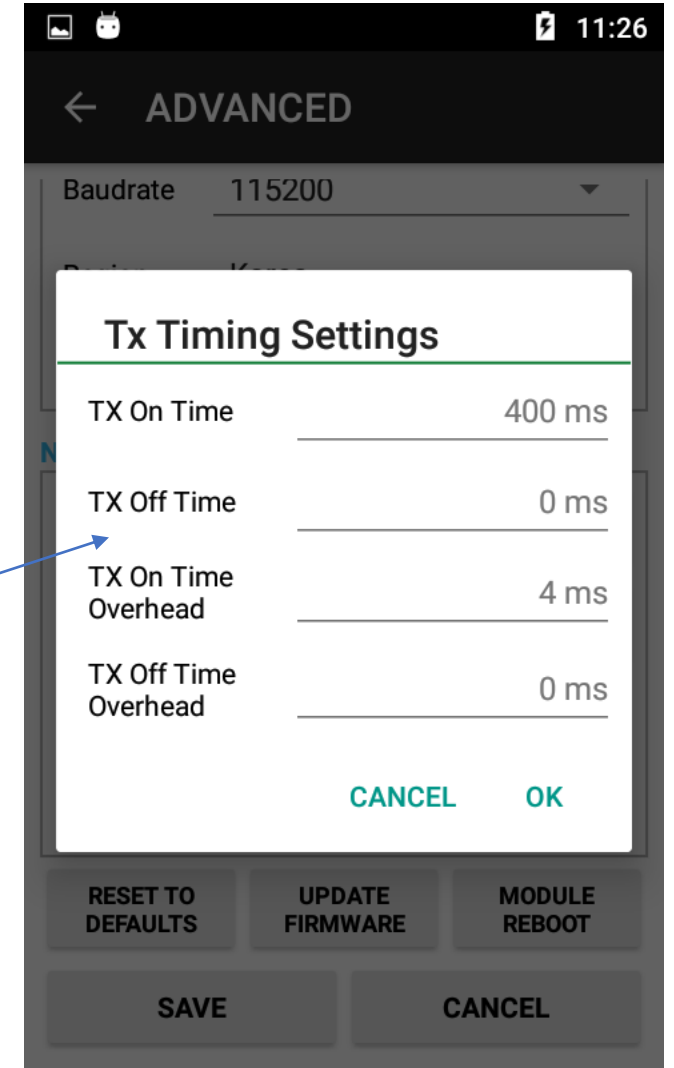
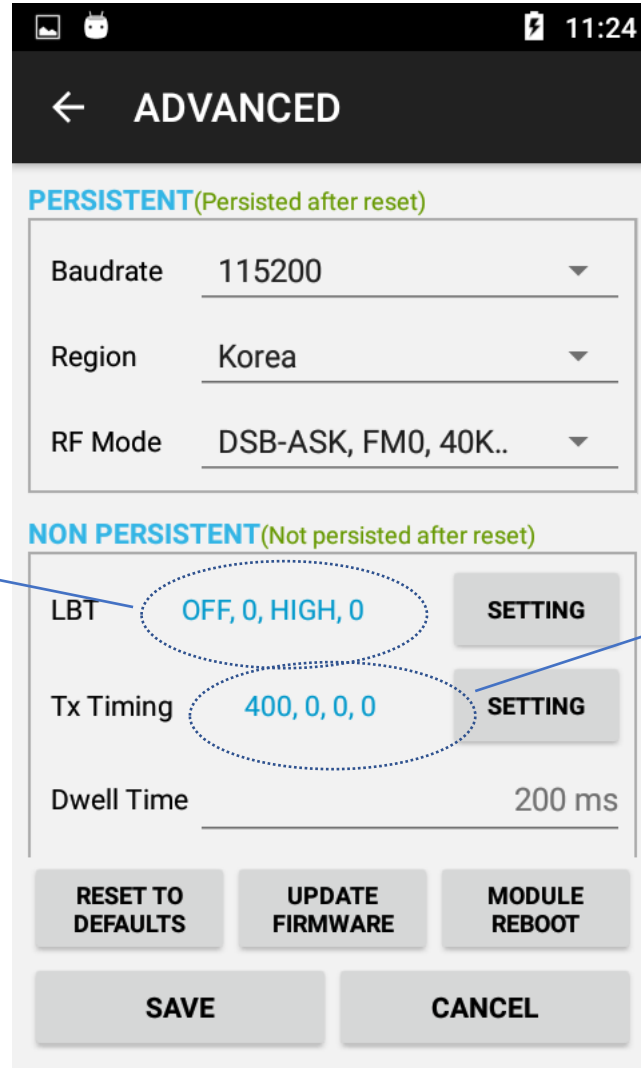
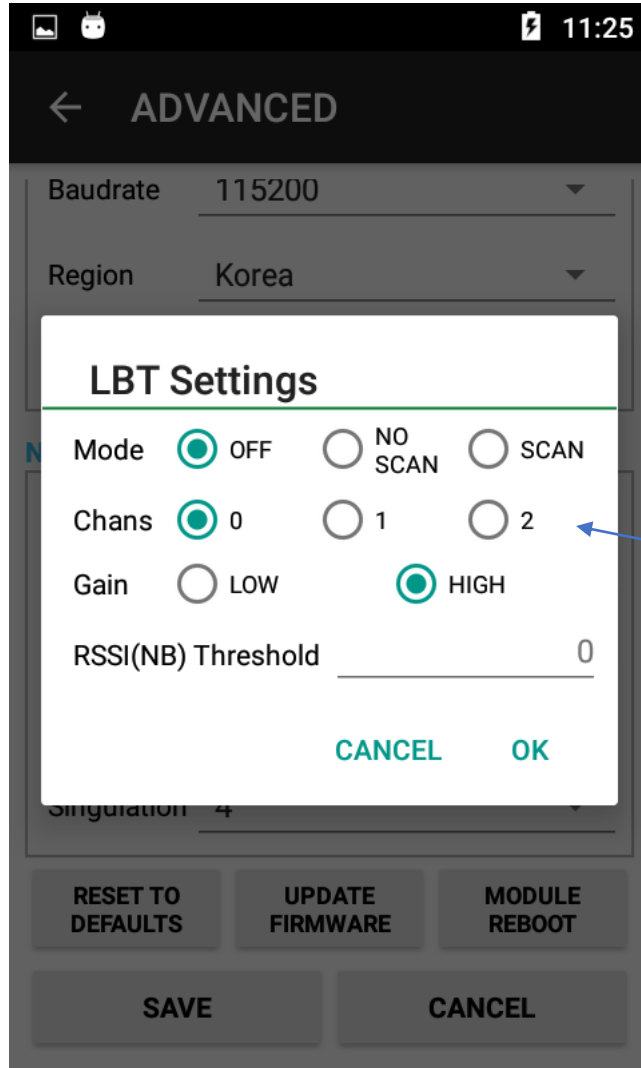
NONPERSISTENT Setting

1. LBT: RF frequency hopping mode setting
2. Tx Timing: Set Tx On/Off Timing
3. Dwell Time: Antenna dwelling time setting
4. Singulation: Inventory algorithm setting

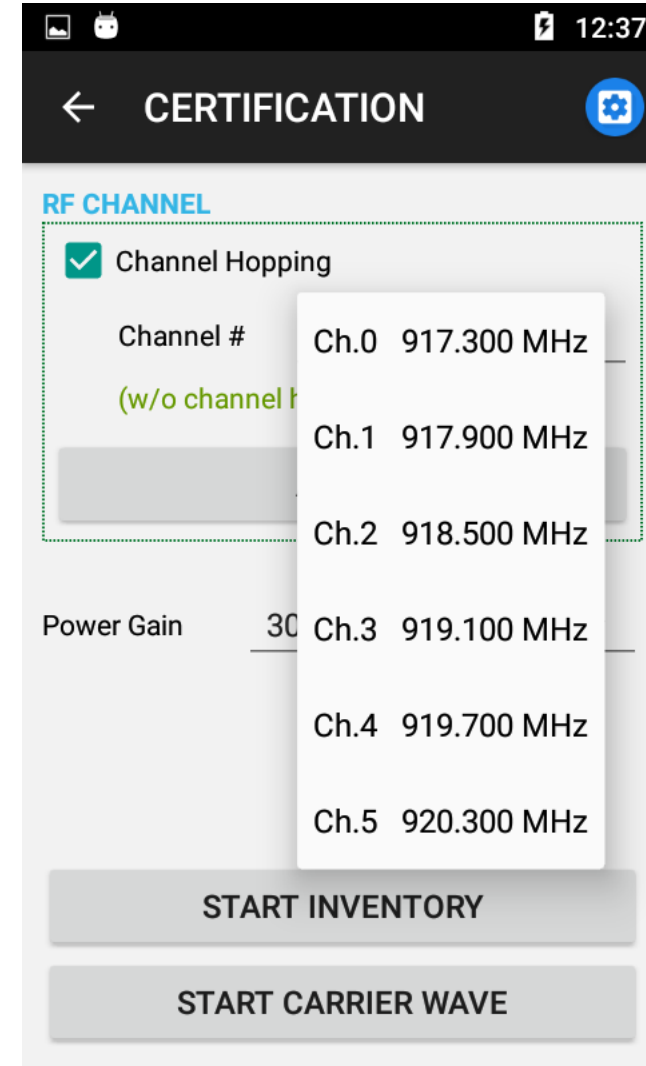
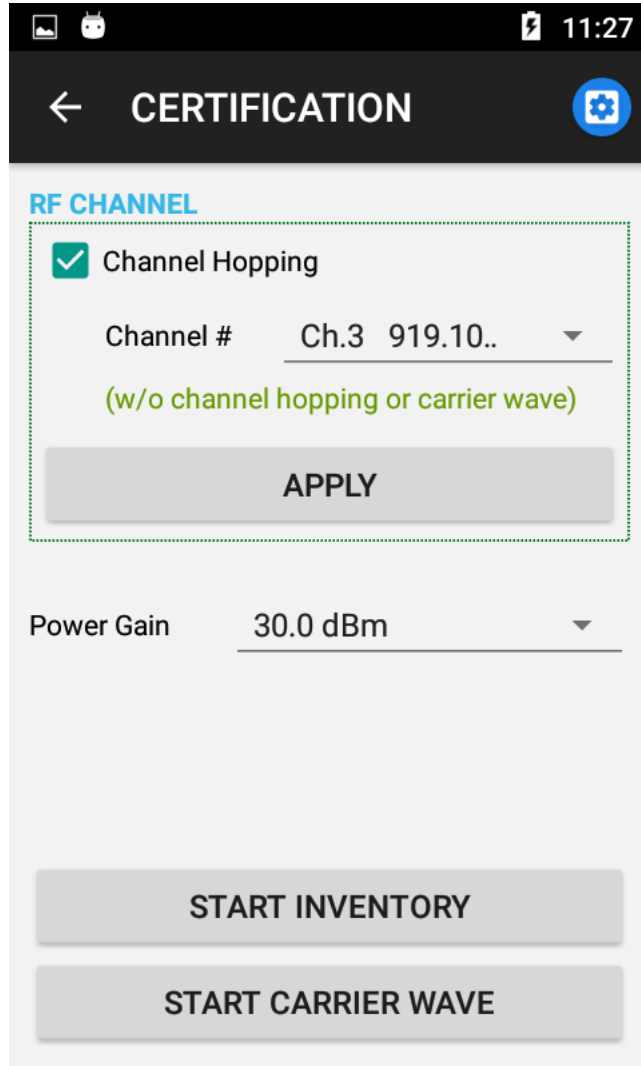
Function buttons

1. RESET TO DEFAULTS: Reset as default value
2. UPDATE FIRMWARE: Firmware update
3. MODULE REBOOT: Reboot Module
4. SAVE: Save changed setting value
5. CANCEL: Cancel and back to set

✓ ADVANCED Screen



✓ CERTIFICATION Screen



-Applied model : : a611 (UHF PDA Reader)

-Application :

Shopping Experience.

-Solution:

With real-time inventory and product information at your employees' fingertips and the ability to process payments on a mobile device, customers will enjoy personalized service and less wait time.





-Applied model : a611 (UHF PDA Reader)

-Application :

Automate storage and
Retrieval system



-Solution:

Monitoring of the entire distribution system.
RFID allows for real-time tracking and batch automation through every process of
The istribution channel.



-Applied model : a611 (UHF PDA Reader)

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Monitoring of the entire distribution system.
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automation through every process of the
distribution channel.



-Applied model : a611 (UHF PDA Reader)

-Application:

Record history of Inventory

-Solution:

Detailed records for individual identification, breed, sex, place of birth, grade. Inspection date, processing date, and other significant data is monitored through RFID tags to ensure the accurate history and safety of all products.

FCC Warning Statement

FCC Part 15.19

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 Part 15.21

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

Modifications not expressly approved by the manufacturer could void your authority to operate the equipment under FCC rules.