

**RTC-600A**

TI OMAP 4470

1.5GHz Processor

5.7" WXGA Color LCD

1Micro USB/ 1USB A-typ/1

Micro-HDMI

RTC-600A user manual Ed 1st

May, 29th, 2015

## **. Copyright Notice**

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AAEON reserves the right to make changes in the product design without notice to its users.

**Packing List**

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Before you begin operating your tablet computer, please make sure that the following materials are enclosed:

**1 RTC-600A Rugged Handheld device with Android 4.2**

**1 AC/DC Power Adapter**

**1 DVD-ROM included the content of user manual**

If any of these items could be missing or damaged, please contact your distributor or sales representative immediately.

## Options

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The following items are normally optional, some vendors may include them in the standard package, some items may not be available in some countries, or some vendors may choose not to carry all the times.

### **3G Modem module**

## Safety & Maintenance

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You can use your Rugged Tablet Computer under a wide range of environmental conditions. However, to ensure long use and continued high performance, consider the following factors when setting up your Rugged Tablet Computer (RTC):

- The input voltage range between the wall outlet and this adapter is AC 100V–240V, and the output voltage of this adapter is DC 12V, 2A.
- The first time you use your RTC, we recommend that you carefully read the Making Connections section of this manual and initialize the battery to ensure optimum battery performance.
- Unplug the RTC from the power outlet before cleaning. Use a damp cloth for cleaning. Do not use aerosols, solvents, or strong detergents.
- Slots and openings on the enclosure are for cooling purposes. Do not block or cover these openings or the system could overheat. Do not use or store the RTC near a source of heat or dust.
- On the base or rear panel of this RTC, there is a label with information on the power requirements of this system. These requirements must be followed. If you are unsure of your local power supply, consult your dealer or local Power Company.
- Do not step on or place anything on the power cord.
- If you use the RTC with an extension cord, ensure that the total ampere ratings of all the devices sharing the extension do not

exceed the rating of the extension cord or the rating of the wall outlet.

- Never push foreign objects into the RTC through any of the slots or openings. Dangerous voltages are present, which could cause electric shock or fire, or damage sensitive components.

**FCC**

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**Warning!**

This device complies with Part 15 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.

**Caution:**

*There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.*

*Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

## Chapter

# 1



## 1.1 Introduction

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This Rugged Tablet Computer (RTC) is a fully functional PC with built-in wireless connectivity, Bluetooth® and an optional 3G modem module. With your RTC you will be able to organize and access important business and personal information. In addition, you will be able to send and receive e-mail and access the Internet.

### ***About Your RTC***

This User Manual contains set-up information and describes key elements of the RTC. Moreover, this manual describes all the features of the RTC in an easy-to-read yet thorough manner. New users can find a simple step-by-step orientation in each chapter.

## 1.2 Features

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- **Included Software**

Android™ v4.2.

- **High performance Processor**

TI® OMAP™ 4470 1.5 GHz Dual Core Processor

- **Storage**

The Rugged Tablet Computer has a 16 GB eMMC Flash to store the programs and multimedia files you need.

- **Built-in Wireless LAN, Bluetooth® and optional 3G Modem Module**

A built-in 802.11 b/g/n and Bluetooth® allows you to access the Internet or a Wireless Local Area Network (WLAN).

### 1.3 Android™

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#### *About Android™*

**Android™ for Developers** offers an online orientation for Android™ developers to answer any questions. Find it in:

<http://developer.android.com/sdk/index.html>

## 1.4 Quick Start

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### Turning on the Rugged Tablet Computer for the First Time



- Use only the power adapter that comes with your device.  
Using a different power adapter may damage your device.
- Using the provided power adapter to connect the RTC-600A to a power outlet is the best way to charge it.
- The input voltage range between the wall outlet and this adapter is AC 100V–240V, and the output voltage of this adapter is DC 12V, 2A.
- When using the RTC-600A for the first time, fully charge the battery for up to 8 hours to prolong battery life and whenever

the battery power is depleted. We suggest you to charge the machine battery at least one time per month if the machine has not been operated.

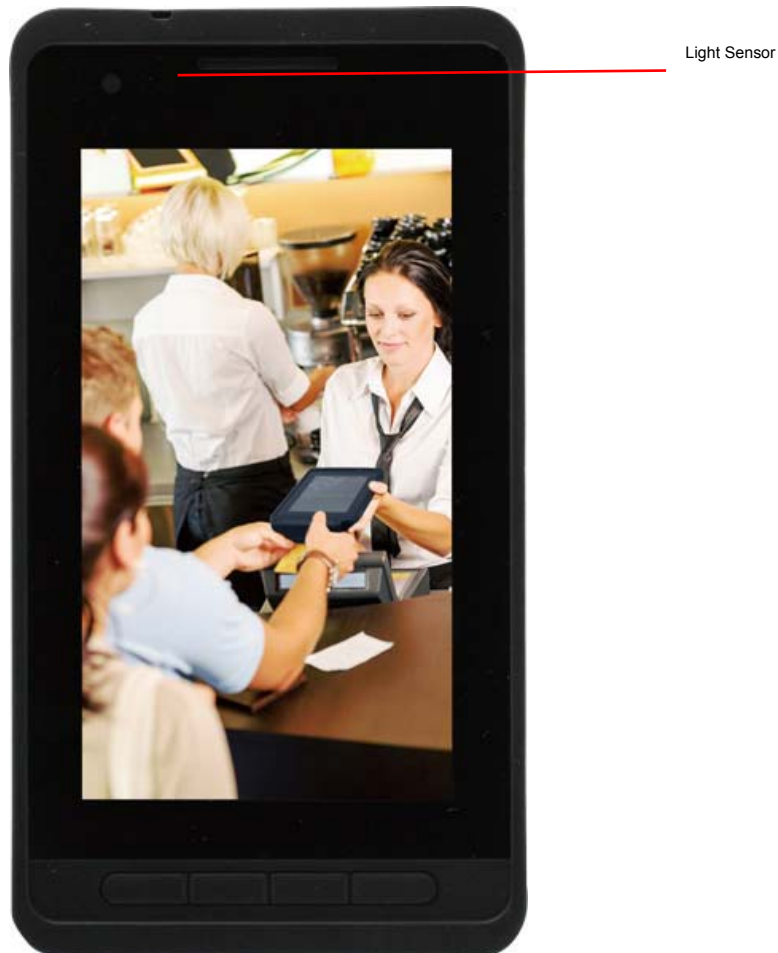
- If the computer does not provide enough power to charge the RTC-600A, use the wall outlet instead.
- The RTC-600A CANNOT be charged via the USB port on the computer.
- The IP65 Waterproof protection may be damaged by improper shocks or drops (over RTC-600A specifications: MIL-STD-810G Method 516.6 Procedure IV). Moreover, the IP65 protection will be influenced if the rubber connector did not cover or close firmly. For more IP65 limitation, please refer to the IP65 test report of RTC-600A.

**Note:** The battery is not fully charged. Allow your battery to fully charge before using it (i.e., before disconnecting AC power). Calibrating the battery before use is also highly recommended.

The power button turns your RTC on and off. Hold the button for two seconds to power on. To start or wake it up from sleep mode, hold the power button for 0.5 seconds to display the shutdown confirmation. If the system is unresponsive, hold the power button to power off. A forced power off may result in data loss. It is strongly recommended that important data is backed up on a regular basis.

**Getting Started**

Before you begin using your RTC, read this chapter to familiarize yourself with the main components installed in the system.

**Front View**

### Left and Top View



### Right and Bottom View



**Rear View**

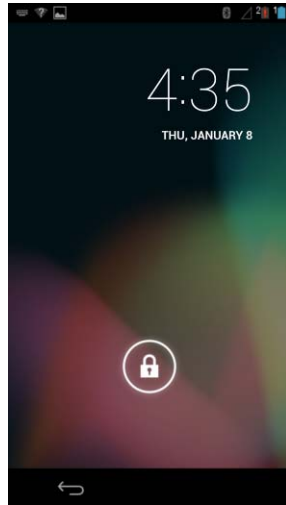
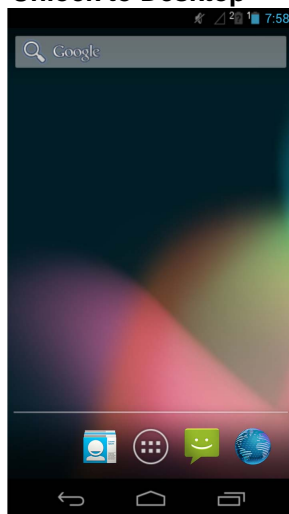


5MP AF Camera with  
Flash light



**Unlocking the RTC-600A**

To unlock this tablet, tap the lock icon, drag and drop out of the circle

**Unlock to Desktop**

## 1.5 Touch Panel Control

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### Single taps

Single taps on the touch panel screen lets the user select a certain item or activate an application.

### Double taps

Double taps on the File Manager lets the user open a selected file.

### Longer press taps

Long-pressing an application allows you to drag and drop the application or the application shortcut to another desktop.  
Long-pressing a desired file in the File Manager allows you to copy, cut, rename or delete the selected file.  
You can use the pencil tool on the top right corner to copy, cut, or delete multiple files at one time.

### Input, insert, select or copy texts

The keyboard appears when you use word processor to edit documents or enter the web address on the web browser address bar.

## 1.6 Settings

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**Settings** allows you to configure the settings of your RTC-600A, which includes:

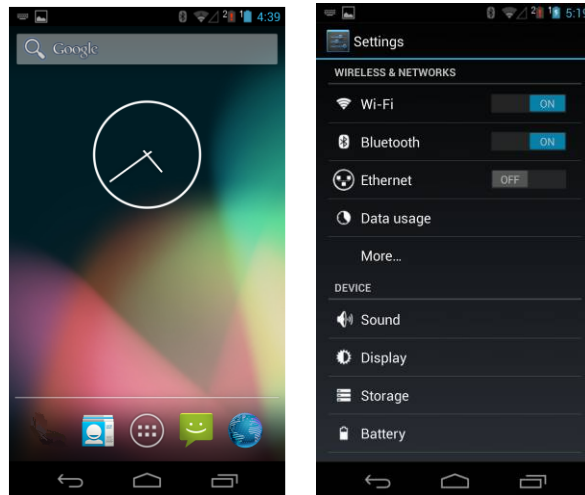
- **WIRELESS & NETWORKS**
  - Wi-Fi
  - Bluetooth
  - Ethernet
  - Data Usage
- **DEVICE**
  - Sound
  - Display
  - Storage
  - Battery
  - Apps
  - Users
- **PERSONAL**
  - Location access
  - Security
  - Language & Input
  - Backup & reset
- **ACCOUNTS**
  - Add Account
- **SYSTEM**
  - Date & time
  - Accessibility
  - About Tablet

### Configuration

Click the tabs on the left to switch screens and access the related configurations.

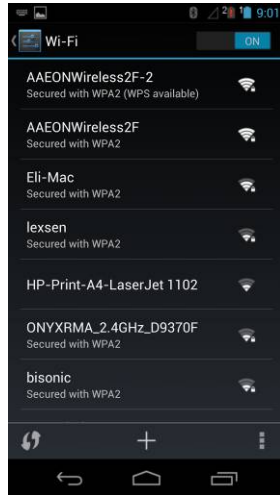
There are two ways to enter the Settings screen:

- 1) Desktop:
  - Tap the notification area on the bottom right corner.
  - Tap and extend the quick configuration area.
  - Tap Settings to open the Settings screen.
- 2) Apps Menu:
  - Tap Apps menu on the top right corner.
  - Tap Settings.



## 1-6-1 WIRELESS & NETWORKS

Select **WIRELESS & NETWORKS** to configure Wi-Fi, Bluetooth®, and Ethernet settings.



### A. To configure Wi-Fi setting:

Go to **Settings>WIFI**.

Select one Access Point

Type in your password, tap **Connect**.

The WiFi connection status turned to Connected means the connection has been established.

### B. To configure Bluetooth setting:

Go to **Setting> Bluetooth**, turn on the Bluetooth

Search and select one device you like to pair with.

### C. To configure 3G setting:

For 3G functions, insert the SIM card and type in your PIN number.

Go to **Settings> More> Mobile Networks**

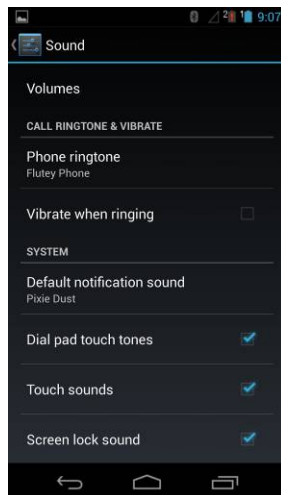
Check **Data enabled** to enable data accessed over Mobile network.

#### D. To configure NFC

Go to **Settings> More**

Check **NFC** to allow data exchange when the table contacts another device which also equipped NFC module.

#### 1-6-2DEVICE



#### A. To configure the Sound setting

You may adjust the system volume, or configure the system notifications, including the notification of touch, screen lock, and vibrate on touch.

Go to **Settings> Sound** to launch it.

#### B. To configure the Display

Go to **Settings > Display** to configure the display settings,

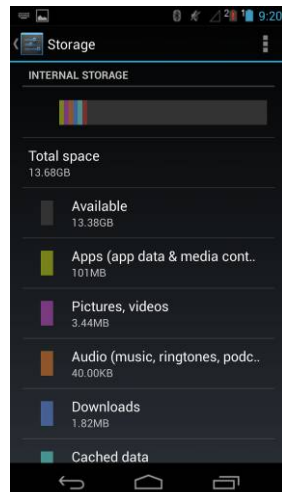
- **Brightness:**

Adjust the brightness or check **Automatic brightness** to adjust the brightness automatically.

- **Wallpaper:**

You may search one from picture source- ES File Explorer, Gallery, Live Wallpaper, or Android default wallpaper.

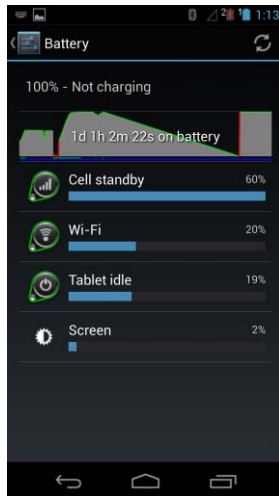
- **Auto-rotate screen:**  
Check this function to let screen be able to auto rotated.
- **Sleep:**  
Setup the time to sleep mode.
- **Daydream**  
Setup the screen protection image when the system is charged or docked.
- **Font Sized**  
Adjust the font size.
- **Wireless Display**  
Current content in RTC-600A could be broadcasted, or extended to the other monitor also supports wireless connection.



### C. To manage the Storage Size

You may manage all the files in the storage.

Go to **Settings> Storage** to launch this function.



#### D. To configure and view the Battery usage Info

View the battery usage rate for all major conditions, like **Cell standby**, **Tablet idle**, **Screen**, and **WiFi**.

Go to **Settings> Battery**

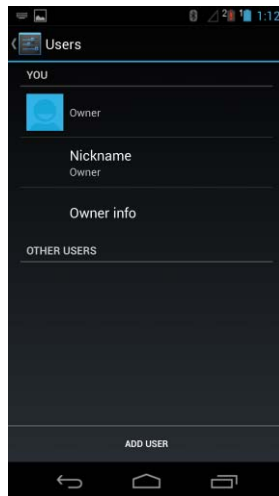


#### E. Applications Management

You may check all the installed application listed in this section.

Go to **Settings> Apps**



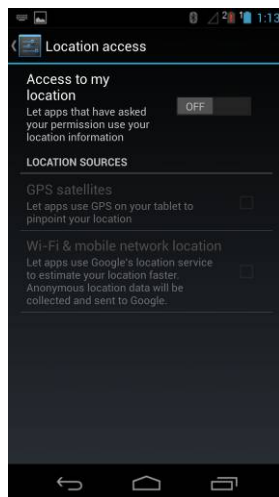


## F. User Accounts Management

You may manage many users to operate the system, and setup the properties for each user.

Go to **Settings> Users**

## 1-6-3 Personal & Privacy Settings



### A. Location access

When your RTC-600A equipped GPS or 3G for A-GPS navigation, this function is available to enable **GPS satellites** and **WiFi & mobile network location**.

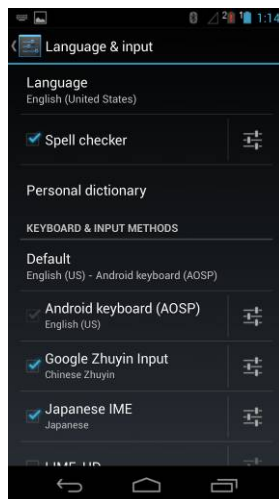
Go to **Settings> Location access**



## B. Security

To configure the system security, including the system lock info, text info when system is locked,

Go to **Settings> Security**



## C. Language and Input

To change the language for your UI,

Go to **Settings> Keyboard & Input**

## D. Backup & Reset

Reset to factory default setting

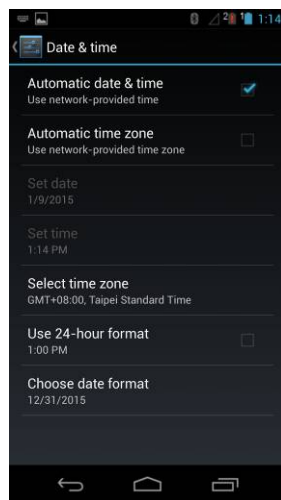
## 1-6-4ACCOUNTS

### A. Add user account

To add/remove the user accounts for all applications in RTC-600A.

Go to **Settings> Account**

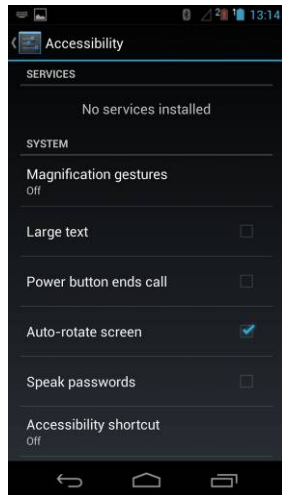
## 1-6-5SYSTEM



### A. Date & time

Tap to setup the time zone and system data& time.

Go to **Settings> Date & time**



## B. Accessibility

Tap to setup the system accessibility, including gesture magnification, text fin tuned to larger size, screen rotatable, touch & hold behavior in this section.

Go to **Settings> Accessibility**



## C. About tablet

To check the System detail information, including OS, 3G firmware, Kernel, and OS build versions.

Go to **Settings> About Tablet**

# Applications

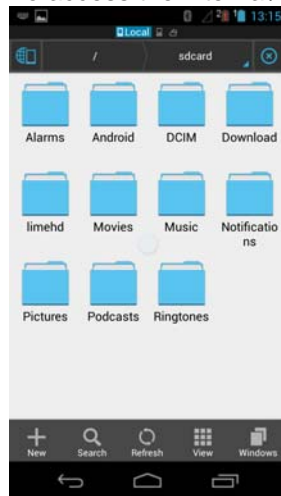
## 2.1 ES File Explorer

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ES File Explorer allows user to locate and manage data on the internal storage device or connected external storage devices easily.

To access the internal/external storage:



1. Launch ES File explorer
2. Select sdcard
3. Select the file saved in the external or internal storage
4. You may manage the files from ES File explorer.

## 2.2 Music

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Select Music on desktop to play desired music files. This application automatically displays and stores audio files in the RTC-600A and connected external storage devices.

You can shuffle audio files, or select the desired album for music enjoyment.

## 2.3 Gallery

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Select Gallery on the RTC-600A desktop to browse images or video files. This application automatically displays image and video files stored in the RTC-600A.

You can search all images by Locations, Times, People, or Tags.

You can view image files only, video files only or both.

### Sharing, deleting and editing images

Select desired images in the gallery and use the tool bar on the top right hand corner to share, delete or edit the selected image.

## **2.4 Camera**

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Select Camera on the Apps menu to take photos or record videos.

You can use either the front or back camera.

Image and video files will automatically saved to the Gallery.



## 2.5 Mail

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Email allows you to add several email accounts, browse and manage emails.

# Connectors

## Making connections

Your RTC is equipped with a full array of ports and connectors, including standard input/output (I/O) ports for quickly and easily adding peripheral devices such as printers, keyboards, etc. Refer to documentation included with individual devices for details on connecting these devices to your rugged tablet.

### 3.1 Left Side Connectors

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#### 1. Mrcro USB/USB A-type

For USB extension purpose, you may either connect the micro USB through OTG USB Cable or connect USB a type directly.

#### 2. DC-in Jack

Connect the DC power cable from the AC adapter to this jack.

#### 3. Audio Jack

Connect Audio jack with 3.5mm audio cable for Headset connection.

## 3.2 Bottom Side Connectors

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### 1. Scanner Trigger Button

When your RTC-600A come with scanner module, please trigger the scanner with two sides hard trigger button.

### 2. Micro-SD Card Slot

Insert a micro-SD card into the micro-SD card slot. As the smallest flash memory card, it stores plenty of information even in a compressed state.

### 3. Volume up/down buttons

Buttons to adjust Volume up and down.

### 3.3 Front side button

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#### 1. Power Button

The power button turns the RTC on/off. If the system is unresponsive, press/hold the power switch to force the RTC to power off.

#### 2. Return Button

The 1<sup>st</sup> left button may be able to return to previous page.

#### 3. Home Button

The 2<sup>nd</sup> left button may be able to return to previous page.

#### 4. Program Lists Button

The 3<sup>rd</sup> button may be able to launch all the program lists you are using now.

Frequently  
Asked  
Questions

#### 4.1 Frequently Asked Questions (FAQ)

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1. *What is the default storage path to download software?*

Select "ES File Explorer". The default path is: /sdcard/Device.

2. *How can I cancel the auto stand-by function?*

Select Settings->

Display->

Sleep->

Never.

3. *How do I configure the keyboard input method?*

Select Settings->

Language & input->

Default->

Setup input methods->

Select one Input methods.

4. *How do I unlock OS with password when system is boot up every time?*

Select Settings->

Security->

Screen Lock->

None

5. *How do I restore the original factory mode?*

Select Settings->

Backup & reset->

Factory data reset->

Reset Tablet

6. *How do I increase the GPS speed?*

Select Setting->

Turn on Location access->

Check GPS Satellites->

Check WiFi & mobile network location

7. *How can I do a screen shot?*

Long press below combination keys for 3 seconds the same time:

Power button+ Volume Down button.

The photos will be saved in below path:

Gallery/ Screenshot.

8. *How do I uninstall applications?*

Select Settings-> Apps-> Select the applications that you would like to uninstall-> Uninstall.

9. *How do I replace the desktop wallpaper?*

Select Settings-> Display-> Wallpaper-> Select the source for the wallpaper file.

Or, select Gallery> Select one photo > select the icon at right and top corner > Set Picture as> Wallpaper

10. *How do I remove shortcuts on my Desktop?*

1. Long press the shortcut of the APP, in the mean time, there is a **X Remove** icon shown at top on the desktop,
2. Drag and drop the APP into the **X Remove** icon.

11. *How do I add a shortcut to my Desktop?*

Long Select the APP from the APP pages->

Drag and drop the APP to the desktop page.

12. *How do I stop the screen from rotating automatically?*

Select Settings->

Display->

Cancel "Auto-rotate screen".



*13. How do I start GPS services?*

Select Settings->

Location access->

Enable Access to my location->

Check GPS Satellites.

*14. How to install applications that are prohibited for security reasons?*

Settings->

Security->

Check Unknown sources->

There will a message pop-up to remind you to take responsible for the file installed will not damage system.

*15. How do I replace my default browser homepage?*

Launch Browser->

Select the icon at the top right corner of the browser->

Settings->

Set homepage



## Appendix

# A

## A.1 Statements

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### Declarations and Safety Statements

#### **Federal Communications Commission Statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference (2) This device must accept any interference received, including interference that may cause undesired operation.

This device 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 causes 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 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For body worn operation, this Tablet PC has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the Tablet PC contact from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

#### RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels. The highest SAR value for the device as reported to the FCC is 1.31 W/kg when placed next to the body.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of [www.fcc.gov/oet/ea/fccid](http://www.fcc.gov/oet/ea/fccid) on the FCC ID: OHBRTC600AWBGH

This device is in compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and has been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

## A.2 Canadian Notice

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### IC Regulations

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This Category II radio communication device complies with Industry Canada Standard RSS-310.

Ce dispositif de radio communication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

### IC Radiation Exposure Statement

This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102 and has been tested in accordance with the measurement methods and procedures specified in IEEE 1528. This equipment should be installed and operated with minimum distance 0 cm between the radiator and your body.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

The County Code Selection feature is disabled for producted marketed in the U.S. and Canada.

For products available in the U.S./Canada markets, only channels 1-11 can be operated. The selection of other channels is not possible.



## A.3 CE Mark Notice

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### CE Mark Warning



CE marking for devices without wireless LAN/Bluetooth®

The shipped version of this device complies with the requirements of the EEC directives 2004/108/EC “Electromagnetic compatibility” and 2006/95/EC “Low voltage directive.”



CE Marking for devices with wireless LAN/Bluetooth®

This equipment complies with the requirements of Directive 1999/5/EC of the European Parliament and Commission from March 9<sup>th</sup>, 1999 governing Radio and Telecommunications Equipment and mutual recognition of conformity.

## A.4 Safety Caution

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### Important Safety Instructions

#### Power Safety Requirement

Products with electrical current ratings up to 2A and weighs more than 1 Kg must use approved power cords greater than or equal to: VCTF, 3G or 0.75mm.

Basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.

Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

Do not use the telephone to report a gas leak in the vicinity of the leak.

Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

## A.5 Battery Disposal

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There is a risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



This symbol indicates that the battery should NOT be placed in municipal waste.



DO NOT throw the RTC-700R with municipal waste. This product is designed for proper reuse of parts and recycling. This symbol indicates that the product (electrical, electronic equipment and mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.



**SAFE TEMP:** The RTC-700R should only be used in environments between  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) and  $60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ ).

### Regulatory information / Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

## A.6 Battery Caution

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There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

### Regulatory information / Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

## A.7 Adapter Caution

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This RTC is for use with model NO. LTE24E-S2-2D6