

IMT-BT

Medical Mobile Tablet

User's Manual

(Android)



Manual Rev.: 1.00

Revision Date: March 31, 2017

Part No: 50-1Z230-1000

Revision History

| Revision | Release Date | Description of Change(s) |
|----------|--------------|--------------------------|
| 1.00 | 31/03/2017 | Initial release |

Preface

Copyright 2017 ADLINK Technology Inc.

This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic, or other means in any form without prior written permission of the manufacturer.

Disclaimer

The information in this document is subject to change without prior notice in order to improve reliability, design, and function and does not represent a commitment on the part of the manufacturer.

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

Environmental Responsibility

ADLINK is committed to fulfill its social responsibility to global environmental preservation through compliance with the European Union's Restriction of Hazardous Substances (RoHS) directive and Waste Electrical and Electronic Equipment (WEEE) directive. Environmental protection is a top priority for ADLINK. We have enforced measures to ensure that our products, manufacturing processes, components, and raw materials have as little impact on the environment as possible. When products are at their end of life, our customers are encouraged to dispose of them in accordance with the product disposal and/or recovery programs prescribed by their nation or company.

Trademarks

Product names mentioned herein are used for identification purposes only and may be trademarks and/or registered trademarks of their respective companies.

Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.



NOTE:

Additional information, aids, and tips that help users perform tasks.



CAUTION:

Information to prevent **minor** physical injury, component damage, data loss, and/or program corruption when trying to complete a task.



WARNING:

Information to prevent **serious** physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

Table of Contents

| | |
|--|------------|
| Revision History | ii |
| Preface | iii |
| List of Figures | vii |
| List of Tables | ix |
| 1 Introduction | 1 |
| 1.1 Overview..... | 1 |
| 1.2 Features..... | 1 |
| 1.3 Specifications..... | 2 |
| 1.4 Package Contents | 4 |
| 1.5 Optional Accessories | 4 |
| 1.6 Product Layout..... | 5 |
| 2 Getting Started | 7 |
| 2.1 Using a microSD Card | 7 |
| 2.2 Installing a SIM Card (optional) | 8 |
| 2.3 Charging the Battery..... | 9 |
| 2.4 Initial Startup..... | 10 |
| 3 Basic Skills | 13 |
| 3.1 Turn On / Wake Up..... | 13 |
| 3.2 Turn Off..... | 14 |
| 3.3 Navigating the Touchscreen | 14 |
| 3.4 Home Screen..... | 15 |
| 3.5 Using Applications | 17 |
| 3.6 Navigation Bar | 17 |
| 3.7 Status Bar and Notifications Panel | 18 |

| | | |
|----------|---|-----------|
| 3.8 | Entering Text..... | 19 |
| 3.9 | Function Buttons..... | 20 |
| 4 | Wireless Connections | 21 |
| 4.1 | Airplane Mode..... | 21 |
| 4.2 | Wi-Fi..... | 21 |
| 4.3 | Bluetooth..... | 22 |
| 4.4 | GPS | 23 |
| 5 | External Connections | 25 |
| 5.1 | USB Host | 25 |
| 5.2 | HDMI Display Output..... | 25 |
| 5.3 | Using an SD Card..... | 26 |
| 5.4 | Installing a SIM Card (optional)..... | 27 |
| 5.5 | Audio Out..... | 27 |
| 6 | Management | 29 |
| 6.1 | Wireless and Networks Settings | 29 |
| 6.2 | Device Settings..... | 30 |
| 6.3 | Personal Settings..... | 30 |
| 6.4 | Accounts Settings..... | 30 |
| 6.5 | System Settings..... | 31 |
| 7 | Care and Maintenance..... | 33 |
| 8 | Additional Information..... | 35 |
| 8.1 | Intended User Profile | 35 |
| 8.2 | EMC Information..... | 38 |
| | Important Safety Instructions..... | 43 |
| | Getting Service | 45 |

List of Figures

Figure 1-1: IMT-BT Layout..... 5

This page intentionally left blank.

List of Tables

| | |
|---|---|
| Table 1-1: IMT-BT (Android) Specifications..... | 2 |
| Table 2-1: SD card support list | 8 |

This page intentionally left blank.

1 Introduction

1.1 Overview

The IMT-BT medical mobile tablet (Android) is designed for customers in the retail and field service markets requiring a semi-rugged mobile tablet running Android to act as a durable terminal with high performance computing and versatile features. The IMT-BT features a 1.5GHz dual-core TI OMAP5432 system-on-chip, NFC and RFID reader functions, drop protection, IP54 water and dust resistance and wide operating temperature range.

1.2 Features

- ▶ Intel® Celeron® Processor N2807 dual-core processor system-on-chip
- ▶ Android 4.4.2 operating system
- ▶ 10.1" sunlight readable display, capacitive touchscreen
- ▶ Wireless Connectivity:
 - ▷ WLAN: IEEE 802.11 a/b/g/n/ac
 - ▷ WPAN: Bluetooth 4.0
 - ▷ WWAN: 3.5G HSPA+, 4G LTE (optional)
- ▶ GPS, E-compass, G-sensor
- ▶ Data Capture: HF 13.56MHz NFC RFID, SAM encryption supported
- ▶ IP65 rating
- ▶ 1.2m drop resistance (1.5m with optional protective rubber housing)

1.3 Specifications

| | |
|-----------------------------|--|
| Physical | <ul style="list-style-type: none"> • Dimensions: 291 x 198 x 23 mm (L x W x T) • Weight: 1150g |
| Processor | <ul style="list-style-type: none"> • Intel® Celeron® Processor N2807 (1M Cache, up to 2.16 GHz) |
| Memory & Storage | <ul style="list-style-type: none"> • 4 GB DDR3 RAM • 64 GB eMMC |
| Display | <ul style="list-style-type: none"> • 10.1" sunlight readable display, 1280x800 resolution • Projected capacitive touchscreen • 600 nits brightness • 2-point touch • Corning Gorilla glass (7H hardness) • HDMI port (Type A) |
| Buttons | <ul style="list-style-type: none"> • 1x power button • 4x function buttons |
| Expansion Slots | <ul style="list-style-type: none"> • 1x SIM slot • 1x microSD slot (SDHC up to 64GB, Class 2 to 10) • 1x USB 3.0 (Type-A) |
| Wireless LAN | <ul style="list-style-type: none"> • IEEE 802.11 a/b/g/n/ac (combo Mini PCIe half-size card) • WEP, WPA/WPA2, WAPI • 802.11a: up to 54 Mbps; 802.11b: up to 11 Mbps; 802.11g: up to 54 Mbps; 802.11n: up to 65 Mbps • Distance: 50 meters indoors, 150 meters outdoors |
| Wireless PAN | <ul style="list-style-type: none"> • Bluetooth 4.0 (combo Mini PCIe half-size card) |
| Wireless WAN | <ul style="list-style-type: none"> • 3.5G HSPA+, 4G LTE (Mini PCIe half-size card, optional) • LTE: 150Mbps downlink, 50Mbps uplink • WCDMA: HSDPA, HSUPA, HSPA+ • GSM/GPRS/EDGE: GSM, GPRS/EDGE Class 12 |
| GPS | <ul style="list-style-type: none"> • GPS Module: uBlox AMY-6M • Accuracy: 20 Meters • Hot start: 1 second • Warm start: 40 seconds |
| RFID | <ul style="list-style-type: none"> • HF Reader 13.56 MHz • Tag support: ISO15693, ISO14443A/B, NFC 18000-3 • SAM card support |

Table 1-1: IMT-BT (Android) Specifications

| | |
|-------------------------|---|
| Built-in Sensors | <ul style="list-style-type: none"> • G sensor: 3-axis, 2g, at least 8-bits accuracy • E-Compass: 3-axis, at least 8-bits accuracy • Gyroscope: 12-bits accuracy • Illuminance sensor: 0 to 100,000 lux |
| Status LEDs | <ul style="list-style-type: none"> • Power, Wi-Fi, Charging |
| Camera | <ul style="list-style-type: none"> • Back: 5 megapixel color camera with flash, autofocus • Top: 2 megapixel color camera |
| Audio | <ul style="list-style-type: none"> • Speaker, 100dB 1kHz @10 cm, 8 ohms • Stereo headphone jack (3.5mm) • Bluetooth headset support • Built-in microphone |
| Battery | <ul style="list-style-type: none"> • Li-ion 6300 mAh, 7.4V • Full charge time < 4 hrs |
| Power Adapter | <ul style="list-style-type: none"> • Input: 100-240 V AC, 47-63 Hz • Output: 12V DC, 2.5A max. |
| OS | <ul style="list-style-type: none"> • Android 4.4.2 |
| Environmental | <ul style="list-style-type: none"> • Operating Temperature: 0°C to 40°C • Charging Temperature: 0°C to 40°C • Storage Temperature: -10°C to 50°C • Humidity: 10% to 90% non-condensing • Drop: 1.2 meters (1.5 m with optional protective housing) • Ingress Rating: IP65 |
| Certifications | <ul style="list-style-type: none"> • CB, CE, FCC • EN 60601-1 • RoHS |

Table 1-1: IMT-BT (Android) Specifications

1.4 Package Contents

Please check that your package contains the items below. If you discover damaged or missing items, please contact your vendor.

- ▶ IMT-BT medical mobile tablet (Android)
- ▶ AC power adapter x1
- ▶ Hand Strap



DO NOT install or apply power to equipment that is damaged or if there is missing/incomplete equipment. Retain the shipping carton and packing materials for inspection. Please contact your ADLINK dealer/vendor immediately for assistance. Obtain authorization from your dealer before returning any product to ADLINK.

1.5 Optional Accessories

- ▶ Office Dock (P/N: 93-D0000-100E)
- ▶ Vehicle Dock (P/N: 93-D0001-100E)
- ▶ Protective Rubber Housing (P/N: 58-80068-0000)

1.6 Product Layout



Figure 1-1: IMT-BT Layout

This page intentionally left blank.

2 Getting Started


2.1 Using a microSD Card

Inserting a microSD card

1. Locate the microSD slot on the right side of the tablet and open the cover.
2. Insert the card into the slot with the contacts pointing into the slot and the label facing the front of the tablet.
3. Close the cover.

Removing a microSD card

You can safely remove the microSD card when the tablet is shut down. If you need to remove the card while the tablet is on, unmount the card first to prevent corrupting or damaging the card.

1. Unmount the card (if necessary) by touching  on the Home screen and opening **Settings** → **Storage** → **SD Card** → **Unmount SD Card**.
2. Open the cover and press the edge of the card to release it, then pull the card out of the slot.
3. Close the cover.

SD card support list

| Speed Class | Manufacturer | Model |
|-------------|--------------|--------------|
| Class 4 | Transcend | TS8GUSDHC4 |
| | | TS16GUSDHC4 |
| | | TS32GUSDHC4 |
| | Kingstone | SDC4/8G |
| | | SDC4/16G |
| | | SDC4/32G |
| Class 10 | Kingstone | SDCX10/64G |
| UHS-1 | Sandisk | SDSDQUA-008G |
| | | SDSDQUA-016G |
| | | SDSDQUA-032G |
| | | SDSDQUA-064G |

Table 2-1: SD card support list

2.2 Installing a SIM Card (optional)

Inserting a SIM card

1. Locate the SIM slot on the right side of the tablet and open the cover.
2. Insert the card into the slot with the chip side facing the back of the tablet and the beveled corner pointing into the slot.
3. Close the cover.

To remove a SIM card, gently press the edge of the card to release it, then pull the card out of the slot.

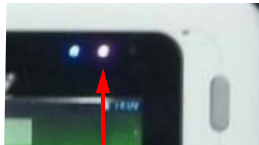
2.3 Charging the Battery

Be sure to fully charge the battery before using your device for the first time.

1. Locate the DC input socket on the left side of the tablet and open the cover.



2. Insert the DC jack end of the AC adapter into the socket and the AC plug into the wall socket.
3. The power status LED glows red when charging. If charging for the first time, do not disconnect your device from AC power until the battery is fully charged, indicated by the power status LED glowing green. This may take up to 4 hours.



4. Close the cover when charging is completed.



A blinking power status LED indicates an abnormal charging condition. Check that the AC adapter is properly inserted into the DC input socket and that the device is not charging in high temperature conditions, resulting in an overheated battery.



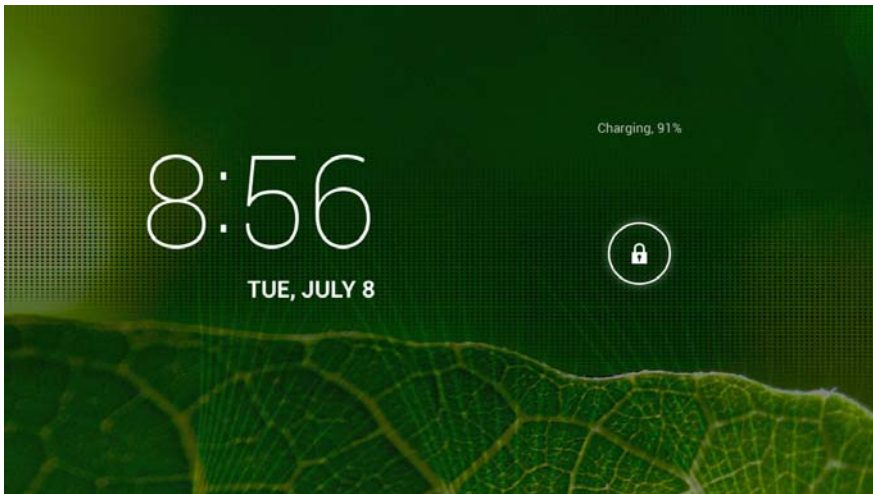
For optimum performance of your battery:

- Only use the AC adapter provided
- Do not charge the battery when the temperature is high (e.g. in direct sunlight).
- Do not store the device in high temperature environments
- Only charge the battery when its temperature is between 0°C and 40°C
- If you are not using the device for an extended period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect its performance.

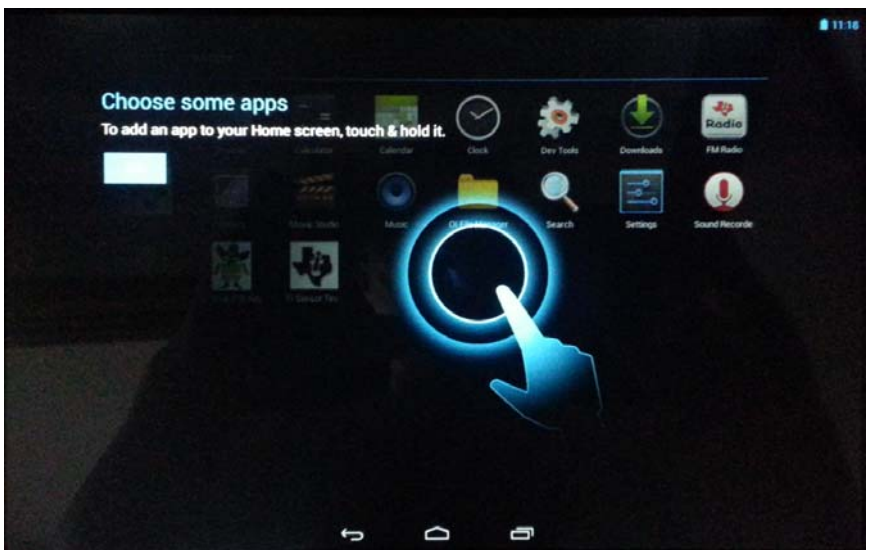
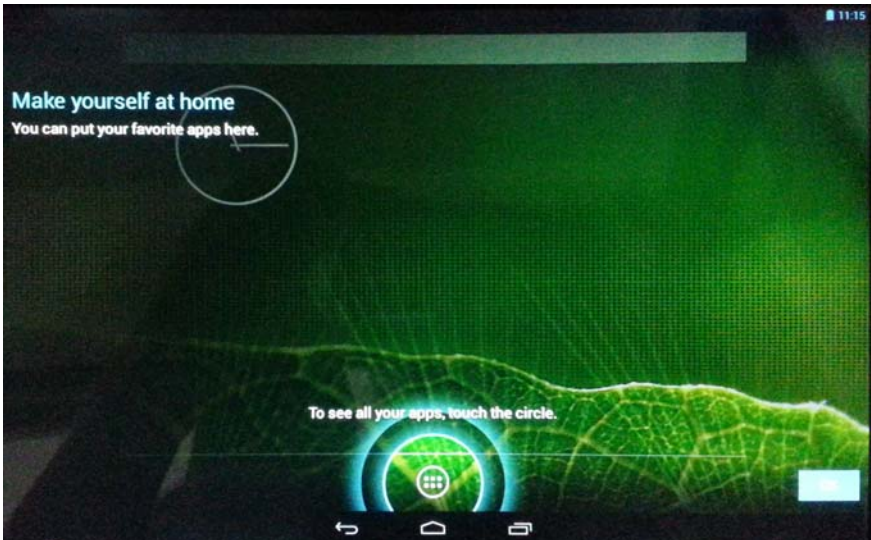
2.4 Initial Startup

After turning on your device for the first time, the onscreen display will guide you through a setup process.

1. Make sure that the tablet is either connected to AC power or the battery has been fully charged.
2. Press the power button. The tablet powers up and displays the initial screen.



3. Touch the circle to see all available apps. They can be dragged onto the Home Screen for easy access.



This page intentionally left blank.

3 Basic Skills

This chapter describes how to perform basic operations with the tablet.



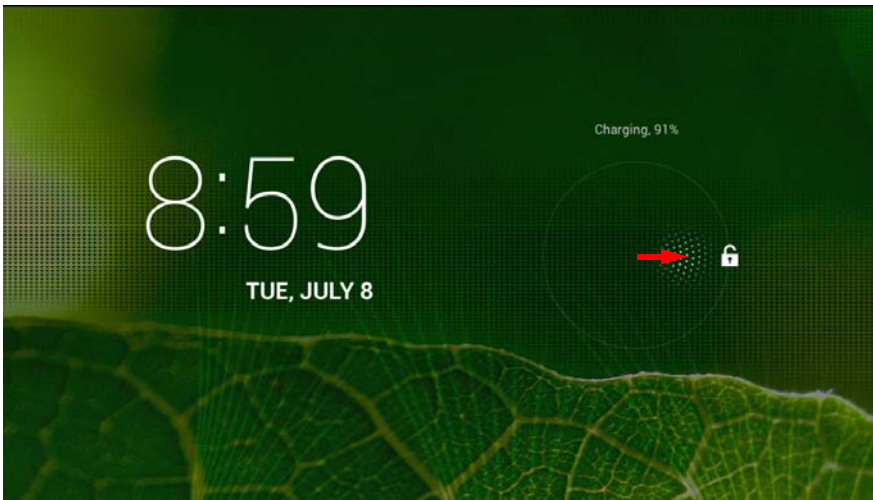
CAUTION:

The device can get uncomfortably warm when used in warm environments. Take care to protect yourself (e.g. by wearing gloves). Prolonged body contact can cause discomfort and potentially a burn.

3.1 Turn On / Wake Up

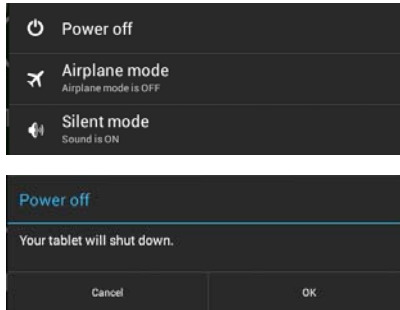
The tablet sleeps after a period of inactivity (1 minute by default). You can also manually put your device to sleep by briefly pressing the power button.

1. To turn on or wake up the tablet, press the power button.
2. At the lock screen, drag the lock icon in any direction.



3.2 Turn Off

To shut down the tablet, press and hold the power button until a menu pops up. Touch “Power off” and then “OK”.



3.3 Navigating the Touchscreen



Be careful not to damage the touchscreen with sharp objects. Use your finger or a stylus specifically intended for touchscreens.

The following actions can be performed with the touchscreen.

- ▶ **Touch:** touch the screen once
- ▶ **Touch and hold:** touch and hold on an item to see a list of options available
- ▶ **Drag:** touch and hold an item, then move across the screen without lifting your finger (stylus) to the target location
- ▶ **Swipe:** move your finger (stylus) across the screen without pausing when you first touch it (e.g. scrolling up and down)
- ▶ **Pinch:** touch the screen with two fingers and pinch them together to zoom in, spread them apart to zoom out

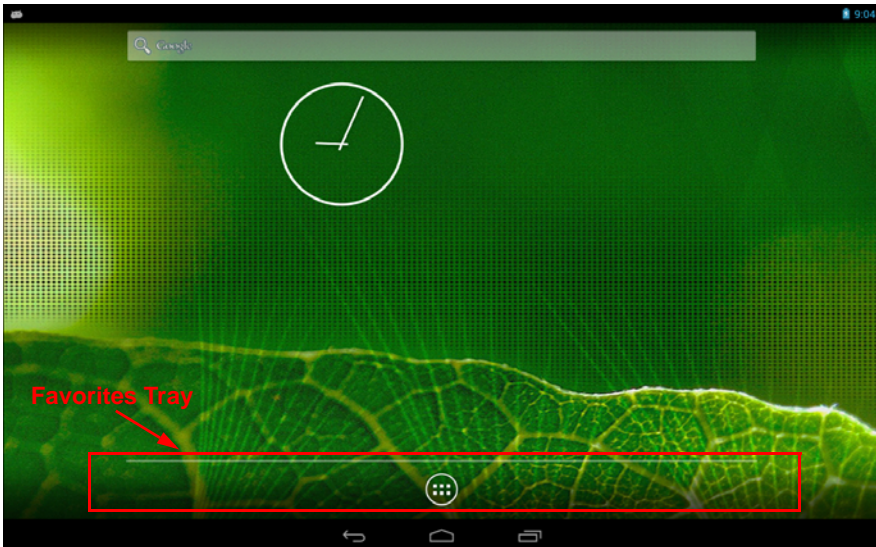
Landscape and Portrait View


The tablet supports landscape and portrait view, and will automatically adjust the display orientation depending on how it is held or mounted.

3.4 Home Screen

The Home screen is your starting point for accessing features and functions on your tablet. Initially, it contains only the clock and Google search bar widgets. You can customize it with application icons, shortcuts, widgets and other features.

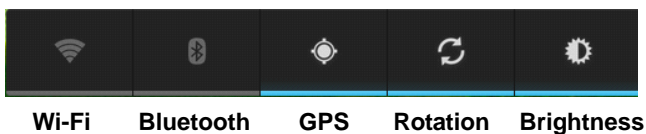
At the bottom of every Home screen is the Favorites tray.



To return to the Home screen at any time, touch  at the bottom of the screen.

Extensions to the Home Screen

You can swipe left or right on the Home screen to see additional screens. Extensions to the Home screen provide more space for widgets, shortcuts, and other items. On the screen to the left of the main Home screen, you will find the Quick Settings widget. You can drag this widget to your desired location.




Quick Settings Widget

The Quick Settings widget lets you quickly access frequently used functions: Wi-Fi, Bluetooth, GPS, screen rotation lock, and screen brightness (Auto, dim, medium, bright).

Customizing the Home Screen

You can add application shortcuts, widgets, and other items to any part of the Home screen where there is space available. You can also change the wallpaper.

Adding an Item to the Home Screen

1. Touch  (in the Favorites tray) on the Home screen.
2. Touch APPS or WIDGETS depending on the type of item you want to add.
3. Touch and hold an item, drag it to the where you want to place it, then release it.


Removing an Item from the Home Screen

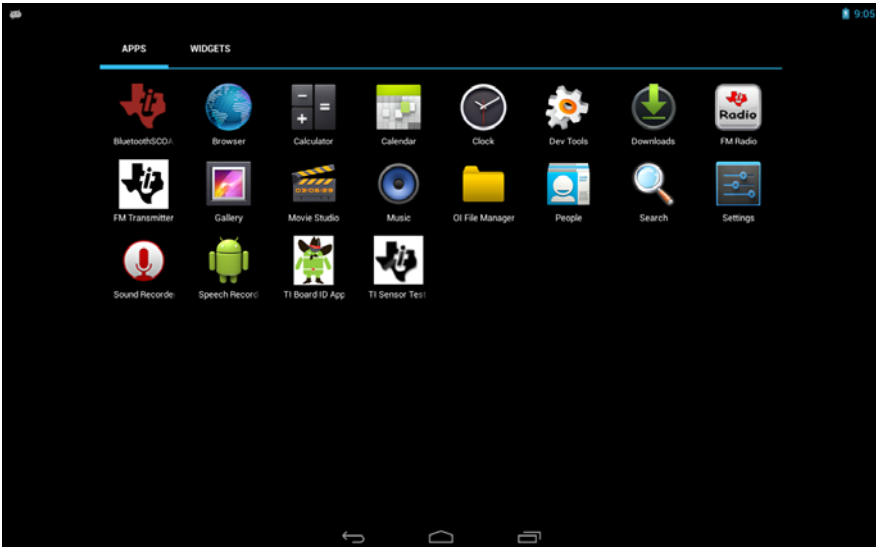
Touch and hold the item you want to remove, then drag it to the “X Remove” icon at the top center of the screen.


Changing the Wallpaper

1. Touch and hold an empty area on the Home screen.
2. In the menu that opens, touch the wallpaper source you want to use and select your wallpaper. Follow the instructions to set your new wallpaper.

3.5 Using Applications




Touch  on the Home screen to open the Applications & Widgets screen. This screen holds icons for all of the applications on your device. Touch an icon to open the application.



Most applications have a Menu icon  near the top right corner of the screen. The menu provides access to options or functions of the application.

3.6 Navigation Bar

The navigation bar at the bottom of the screen provides buttons for navigation purposes.

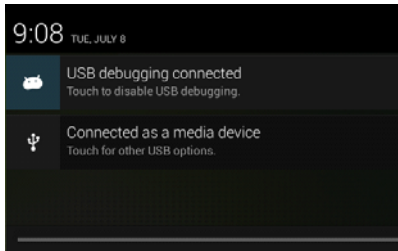
-  **Back:** Goes back to the previous screen.
-  **Home:** Opens the Home screen.
-  **Recent:** Opens a screen containing thumbnails of applications recently used. Touch a thumbnail to open that application. Swipe upwards on the thumbnail to close the application.

3.7 Status Bar and Notifications Panel

The Status bar appears at the top of most screens. It displays the time, battery and other status icons, and notification icons.



The Notifications panel can be opened by swiping down from the top of the screen. To respond to a notification, touch it in the panel.



3.8 Entering Text

You can enter text, numbers, and symbols using the onscreen keyboard. Some applications open the keyboard automatically. Others require you to touch the input field where you want to enter text to open the keyboard.



To enter text, touch the keys on the keyboard to type. To enter numbers or symbols, touch the Symbols **123** key to switch to the numbers and symbols keyboard. Touch the Settings **#** key to set the input language and access the Android keyboard settings menu.

3.9 Function Buttons


The function buttons at the top right of the tablet perform the following functions: Home, Back, Volume Up, Volume Down.

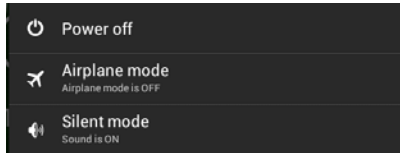


4 Wireless Connections


The IMT-BT (Android) supports wireless connectivity via Wi-Fi, Bluetooth and mobile networks (optional).

4.1 Airplane Mode


When it is necessary to turn off all wireless radios, you can put the tablet into Airplane mode. To quickly enter Airplane mode, press and hold the power button until the power menu pops up. Touch Airplane mode. The  icon displays in the Status bar.



4.2 Wi-Fi

To turn Wi-Fi on or off, touch the  icon on the Quick Settings widget on the Home screen.

Or perform the following steps:

1. Touch  on the Home screen and open Settings
2. Find the Wi-Fi item under WIRELESS & NETWORKS. Slide the Wi-Fi switch on or off.



When the Wi-Fi radio is turned on and your device finds a network that you previously connected to, it will re-connect to it.




NOTE:

Leaving the Wi-Fi radio on will consume more power. To save battery power, turn it off when not in use.


Connecting to a Wi-Fi Network

1. Touch  on the Home and open Settings. Turn on Wi-Fi as described above and touch  **Wi-Fi**.
2. The tablet will scan for available networks and display them on the screen.
3. Touch the network you wish to connect to.
4. If the network is secured, you will be prompted to enter a password. If the network is open, you will be prompted to confirm that you want to connect to it.

4.3 Bluetooth

To turn Bluetooth on or off, touch the  icon on the Quick Settings widget on the Home screen.

Or perform the following steps:

1. Touch  on the Home screen and open Settings
2. Find the Bluetooth item under WIRELESS & NETWORKS. Slide the Bluetooth switch on or off.




NOTE:

Leaving the Bluetooth radio on will consume more power. To save battery power, turn it off when not in use.

Pairing with a Bluetooth Device


The first time you use a new Bluetooth device with your tablet, you must “pair” them, so that they know how to connect securely to each other. Afterwards, you will only need to connect to a previously paired device.

1. Make sure that the Bluetooth device you wish to pair is set as “discoverable” and within range.
2. Make sure the Bluetooth radio is turned on.
3. Touch  on the Home screen, open Settings and touch



 **Bluetooth**

4. The tablet will scan for and display the IDs of all available Bluetooth devices within range.
5. On the list of discovered devices, touch the ID of the device you wish to pair with.
6. If prompted, enter the pass code of the device (usually 0000 or 1234). Refer to the documentation that came with the device.
7. If the pairing is successful, your tablet will connect to the device.

4.4 GPS

To turn GPS on or off, touch the  icon on the Quick Settings widget on the Home screen.

Or perform the following steps:

1. Touch  on the Home screen and open Settings
2. Touch  **Location Access** under PERSONAL. Slide the **Access to my location** switch on or off.

When the GPS radio is turned on and your device finds a network that you previously connected to, it will re-connect to it.



NOTE:

Leaving the GPS radio on will consume more power. To save battery power, turn it off when not in use.

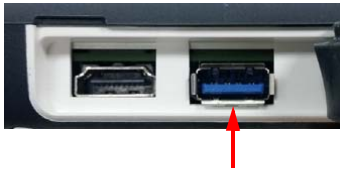
This page intentionally left blank.

5 External Connections

The IMT-BT (Android) has a USB 3.0 port, an HDMI display output, SD card slot and SIM card slot (optional) on the right side of the tablet, and an audio output on the left side. To access the connectors, use your fingernail to open the protective covers. Fully close the covers to maintain IP65 protection for the tablet.

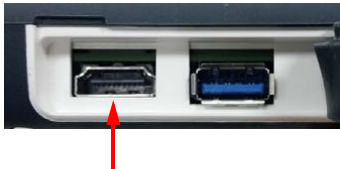
5.1 USB Host

To connect a USB device to the tablet, such as a flash drive or external storage, use the USB 3.0 port (Type A) on the right side of the tablet.



5.2 HDMI Display Output

The HDMI (Type A) port is on the right side of the tablet.



5.3 Using an SD Card



Inserting an SD card

1. Locate the SD slot on the right side of the tablet and open the cover.
2. Insert the card into the slot with the contacts facing upwards and the label facing the back of the tablet (refer to the drawing next to the SD card slot).
3. Close the cover.

Removing a SD card

You can safely remove the SD card when the tablet is shut down. If you need to remove the card while the tablet is on, eject the card first to prevent corrupting or damaging the card.

1. Eject the SD card (if necessary, depending on your device policy settings) by opening Windows Explorer and locating the SD card in "This Computer". Right-click on the SD card and click "Eject". The "Safe to Remove Hardware" notification will appear in the system tray.
2. Open the cover and press the edge of the card to release it, then pull the card out of the slot.
3. Close the cover.

5.4 Installing a SIM Card (optional)

For models with optional 3G/LTE Mini PCIe card:



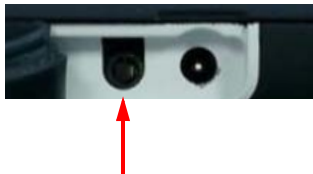
Inserting a SIM card

1. Locate the SIM slot on the right side of the tablet and open the cover.
2. Insert the card into the slot with the contacts side facing the back of the tablet and the beveled corner pointing into the slot (refer to the drawing next to the SIM card slot).
3. Close the cover.

To remove a SIM card, gently press the edge of the card to release it, then pull the card out of the slot.


5.5 Audio Out

Insert your headphone connector into the 3.5 mm stereo audio jack on the left side of the tablet.



This page intentionally left blank.

6 Management

The Settings application allows you to configure and customize your tablet. To open Settings, touch  on the Home screen and open Settings..



NOTE:

Available setting items are dependent on the specific model of your tablet.

6.1 Wireless and Networks Settings

| Item | Description |
|---|---|
| Wi-Fi | Configure and use Wi-Fi |
| Bluetooth | Configure and use Bluetooth |
| Data usage | View the amount of data uploaded or downloaded by your tablet during a given period. You can set conditions for data usage. |
| More ... | |
| Airplane mode | Turns off all wireless radios. |
| VPN | Add a new VPN or view previously configured VPNs |
| Tethering & portable hotspot | Share your tablet's mobile data connection via USB or as a portable Wi-Fi hotspot. |
| NFC | Turns NFC on/off |
| Android Beam | Allows data exchange when the tablet touches another device |
| Mobile networks | Set up your tablet's mobile data networks connection |

6.2 Device Settings

| Item | Description |
|----------------|--|
| Sound | Configure sound settings such as volume, notification sound, touch sound, etc. |
| Display | Set brightness, wallpaper, sleep timeout, and font size |
| Storage | View the amount of storage used and available on your tablet |
| Battery | View battery usage data |
| Apps | View details about installed applications and manage them. |

6.3 Personal Settings

| Item | Description |
|-----------------------------|--|
| Location access | Configure how your tablet determines its location and how it shares your location with Google and others. |
| Security | Configure screen lock, power-on password, visibility of passwords, device administration, and credential storage |
| Language & input | Set up display language, spell checker, personal dictionary, keyboard language, input method, voice search, text-to-speech output and mouse/trackpad pointer speed |
| Backup & reset | Back up data and settings, reset to factory default state |

6.4 Accounts Settings

| Item | Description |
|---------------|---|
| + Add account | Add new account, manage an existing account |

6.5 System Settings

| Item | Description |
|---------------|--|
| Date & time | Use automatic date and time or to enter manually, choose date and time format |
| Accessibility | Set up your tablet's accessibility settings |
| About tablet | Get status information (battery, network, etc.), legal information model number, Android version, kernel version and build |

This page intentionally left blank.

7 Care and Maintenance

- ▶ Avoid exposure to excessive moisture and extreme temperatures.
- ▶ Avoid exposure to direct sunlight or strong ultraviolet light for extended periods of time.
- ▶ Do not place anything on top of your tablet or drop objects on your tablet.
- ▶ Do not drop your tablet or subject it to severe shock.
- ▶ Do not subject your tablet to sudden and severe temperature changes. This may result in moisture condensation inside the unit and subsequent damage. In the event of moisture condensation, allow your tablet to dry out completely before powering it on.
- ▶ Avoid touching it with sharp objects to prevent scratches.
- ▶ Use a soft, lint-free cloth to clean the screen and the exterior of your device.
- ▶ Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void the warranty.
- ▶ Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

This page intentionally left blank.

8 Additional Information

8.1 Intended User Profile

Age preference 50-70 (Intended User Profile 1)

- Education:**
- vocational high school graduate
 - major in electrical or electronics
 - no maximum
- Knowledge:**
- minimum:
 - understanding of the definition of voltage, current and frequency.
 - understanding of the definition of Class I (basic insulation) and Class II (double insulation)
 - can recognize the symbols of alternating current (AC), direct current (DC), protective earth (ground), earth (ground), Class II equipment, caution, operating instructions, "ON" (power) and "OFF" (power)
 - no maximum
- Language Skills:**
- Languages as specified in the marketing plan for power supply.
- Experience:**
- minimum:
 - under 75 years old: training under surveillance
 - other: no special experience needed
 - no maximum
- Permissible Impairments:**
- mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32)
 - two arms / hand system capable of guiding and holding device
 - average degree of aging-related short term memory impairment
 - impaired by 40% resulting in 60% of normal hearing at 500 Hz to 2 kHz

Age preference 30-50 (Intended User Profile 2)

- Education:**
- vocational high school graduate
 - major in electrical or electronics
 - no maximum
- Knowledge:**
- minimum:
 - understanding of the definition of voltage, current and frequency.
 - understanding of the definition of Class I (basic insulation) and Class II (double insulation)
 - can recognize the symbols of alternating current (AC), direct current (DC), protective earth (ground), earth (ground), Class II equipment, caution, operating instructions, "ON" (power) and "OFF" (power)
 - no maximum
- Language Skills:**
- Languages as specified in the marketing plan for power supply.
- Experience:**
- minimum:
 - under 50 years old: training under surveillance
 - other: no special experience needed
 - no maximum
- Permissible Impairments:**
- mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32)
 - two arms / hand system capable of guiding and holding device
 - average degree of aging-related short term memory impairment
 - impaired by 40% resulting in 60% of normal hearing at 500 Hz to 2 kHz


Age preference 18-30 (Intended User Profile 3)

- Education:**
- vocational high school graduate
 - major in electrical or electronic
 - no maximum
- Knowledge:**
- minimum:
 - understanding of the definition of voltage, current and frequency.
 - understanding of the definition of Class I (basic insulation) and Class II (double insulation)
 - can recognize the symbols of alternating current (AC), direct current (DC), protective earth (ground), earth (ground), Class II equipment, caution, operating instructions, "ON" (power) and "OFF" (power)
- Language Skills:**
- Languages as specified in the marketing plan for power supply.
- Experience:**
- minimum:
 - under 30 years old: training under surveillance
 - other: no special experience needed
 - no maximum
- Permissible Impairments:**
- mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32)
 - two arms / hand system capable of guiding and holding device
 - average degree of aging-related short term memory impairment

8.2 EMC Information

| Guidance and manufacturer's declaration – electromagnetic emissions | | |
|---|-------------------|--|
| The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment. | | |
| Emissions test | Compliance | Electromagnetic environment – guidance |
| RF emissions CISPR 11 | Group 1 | The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| RF emissions CISPR 11 | Class B | |
| Harmonic emissions IEC 61000-3-2 | Class A | |
| Voltage fluctuations/ flicker emissions IEC 61000-3-3 | Complies | |

| Guidance and manufacturer's declaration – electromagnetic immunity | | | |
|---|---|---|--|
| The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment. | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment – guidance |
| Electrostatic discharge (ESD) IEC 61000-4-2 | ±6 kV contact ±8 kV air | ±6 kV contact ±8 kV air | Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |
| Electrical fast transient/burst IEC 61000-4-4 | ±2 kV for power supply lines ±1 kV for input/output lines | ±2 kV for power supply lines ±1 kV for input/output lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | ±1 kV line(s) to line(s) ±2 kV line(s) to earth | ±1 kV line(s) to line(s) ±2 kV line(s) to earth | Mains power quality should be that of a typical commercial or hospital environment. |
| Interruptions and voltage variations on power supply input lines IEC 61000-4-11 | <5% <i>UT</i> (>95% dip in <i>UT</i>) for 0,5 cycle 40% <i>UT</i> (60% dip in <i>UT</i>) for 5 cycles 70% <i>UT</i> (30% dip in <i>UT</i>) for 25 cycles <5% <i>UT</i> (>95% dip in <i>UT</i>) for 5 sec | <5% <i>UT</i> (>95% dip in <i>UT</i>) for 0,5 cycle 40% <i>UT</i> (60% dip in <i>UT</i>) for 5 cycles 70% <i>UT</i> (30% dip in <i>UT</i>) for 25 cycles <5% <i>UT</i> (>95% dip in <i>UT</i>) for 5 sec | Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery. |
| Power frequency (50/60 Hz) magnetic field IEC 61000-4-8 | 3 A/m | 3 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |
| NOTE: <i>UT</i> is the A.C. mains voltage prior to application of the test level. | | | |

| Guidance and manufacturer's declaration – electromagnetic immunity | | | |
|---|-----------------------------|-------------------------|---|
| The model device is intended for use in the electromagnetic environment specified below. The customer or the user of the model device should assure that it is used in such an environment. | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment – guidance |
| Conducted RF IEC 61000-4-6 | 3 Vrms 150 kHz to 80 MHz | 3 Vrms | <p>Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2,3 \sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p>  |
| Radiated RF IEC 61000-4-3 | 3 V/m 80 MHz to 2,5 GHz | 3 V/m | |
| NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies. | | | |
| NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people. | | | |

- ^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.
- ^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the device

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications equipment.

| Rated maximum output power of transmitter W | Separation distance according to frequency of transmitter m | | |
|--|--|---|--|
| | 150 kHz to 80 MHz $d = 1,2 \sqrt{P}$ | 80 MHz to 800 MHz $d = 1,2 \sqrt{P}$ | 800 MHz to 2,5 GHz $d = 2,3 \sqrt{P}$ |
| 0,01 | 0,12 | 0,12 | 0,23 |
| 0,1 | 0,38 | 0,38 | 0,73 |
| 1 | 1,2 | 1,2 | 2,3 |
| 10 | 3,8 | 3,8 | 7,3 |
| 100 | 12 | 12 | 23 |

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

This page intentionally left blank.

Important Safety Instructions

For user safety, please read and follow all **instructions**, **WARNINGS**, **CAUTIONS**, and **NOTES** marked in this manual and on the associated equipment before handling/operating the equipment.

- ▶ Read these safety instructions carefully.
- ▶ Keep this user's manual for future reference.
- ▶ Read the specifications section of this manual for detailed information on the operating environment of this equipment.
- ▶ To avoid electrical shock and/or damage to equipment:
 - ▷ Keep equipment away from water or liquid sources;
 - ▷ Keep equipment away from high heat or high humidity;
- ▶ Never attempt to fix the equipment. Equipment should only be serviced by qualified personnel.
- ▶ Equipment must be serviced by authorized technicians when:
 - ▷ The power cord or plug is damaged;
 - ▷ Liquid has penetrated the equipment;
 - ▷ It has been exposed to high humidity/moisture;
 - ▷ It is not functioning or does not function according to the user's manual;
 - ▷ It has been dropped and/or damaged; and/or,
 - ▷ It has an obvious sign of breakage.
- ▶ Do not use a battery other than one approved for your device.



Risk of explosion if battery is replaced with one of an incorrect type. Dispose of used batteries appropriately.

- ▶ Do not use an AC adapter other than one approved for your device. Use of another type of AC adapter may result in malfunction and/or danger.
 - ▷ Do not use the AC adapter in a high moisture environment. Never touch the AC adapter when your hands or feet are wet.
 - ▷ Allow adequate ventilation around the AC adapter when using it to operate the device or charge the battery. Do not cover the AC adapter with paper or other objects that will reduce cooling. Do not use the AC adapter while it is inside a carrying case.
 - ▷ Connect the AC adapter to a proper power source. The voltage and grounding requirements are found on the product case and/or packaging.
 - ▷ Do not use the AC adapter if the cord becomes damaged.
 - ▷ Do not attempt to service the adapter. There are no user serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

Getting Service

Ask an Expert: <http://askanexpert.adlinktech.com>

ADLINK Technology, Inc.

9F, No.166 Jian Yi Road, Zhonghe District
New Taipei City 235, Taiwan
Tel: +886-2-8226-5877
Fax: +886-2-8226-5717
Email: service@adlinktech.com

Ampro ADLINK Technology, Inc.

5215 Hellyer Avenue, #110
San Jose, CA 95138, USA
Tel: +1-408-360-0200
Toll Free: +1-800-966-5200 (USA only)
Fax: +1-408-360-0222
Email: info@adlinktech.com

ADLINK Technology (China) Co., Ltd.

300 Fang Chun Rd., Zhangjiang Hi-Tech Park
Pudong New Area, Shanghai, 201203 China
Tel: +86-21-5132-8988
Fax: +86-21-5132-3588
Email: market@adlinktech.com

LiPPERT ADLINK Technology GmbH

Hans-Thoma-Strasse 11
D-68163 Mannheim, Germany
Tel: +49-621-43214-0
Fax: +49-621 43214-30
Email: emea@adlinktech.com

Please visit the Contact page at **www.adlinktech.com** for information on how to contact the ADLINK regional office nearest you.