



USER GUIDE

Flexpedient[®] AT80 Rugged Android Tablet

| Date | Version | Changes |
|---------------|----------------|-----------------|
| July 13, 2015 | 1.00 | Initial release |
| | | |
| | | |
| | | |

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Introduction

1.1 Overview



Figure 1-1 Flexpedient® AT80 Rugged Tablet

The Flexpedient® AT80 Rugged Tablet is an Android-based rugged tablet with an 8" touch optically bonded LCD screen. At the heart of the system is the Texas Instrument OMAP 4470 Dual-core 1.5GHz CPU. Wireless communication technologies include 802.11b/g/n Wi-Fi, Bluetooth, and an option for Optional 3G Module Cinteron LGA PXS8. Other features include back and front 5-megapixel cameras, a micro SD card slot, a USB2.0 Host/OTG port, 3.5 mm headset jack and two 1 watt IP67 speakers.

1.2 Features

Some of the Flexpedient® AT80 Rugged Tablet features include:

- Multiple colors
- Android 4.3
- 8-inch LCD (1024x768), Optically bonded
- 10-point Capacitive Touchscreen
- Texas Instrument OMAP 4470 Dual-core 1.5GHz
- 1GB LPDDR RAM
- 8 GB Built-in storage
- 5MP Front & Rear Camera Modules
- Wi-Fi 802.11 b/g/n
- GPS
- Supports 3G modem
- IP67

1.3 Front Panel

The front panel of the AT80 has an optically bonded 8-inch (1024x768) LCD with a 5-megapixel front camera.

Front camera



Figure 1-2: Front Panel

1.4 Rear Panel

The rear panel is the location of a 5-megapixel camera. It is also the location for personalized logos.



Figure 1-3: Rear Panel

1.5 Left Panel



LEFT VIEW
1. Left Speaker

The left side panel contains a 1 watt IP67 speaker.

Figure 1-4: Left Panel

1.6 Right Panel

The left side panel contains a power jack, USB OTG port, Micro SD card reader, head phone jack, sliding door, and a speaker. The closed sliding door protects Micro SD card reader and head phone jack.

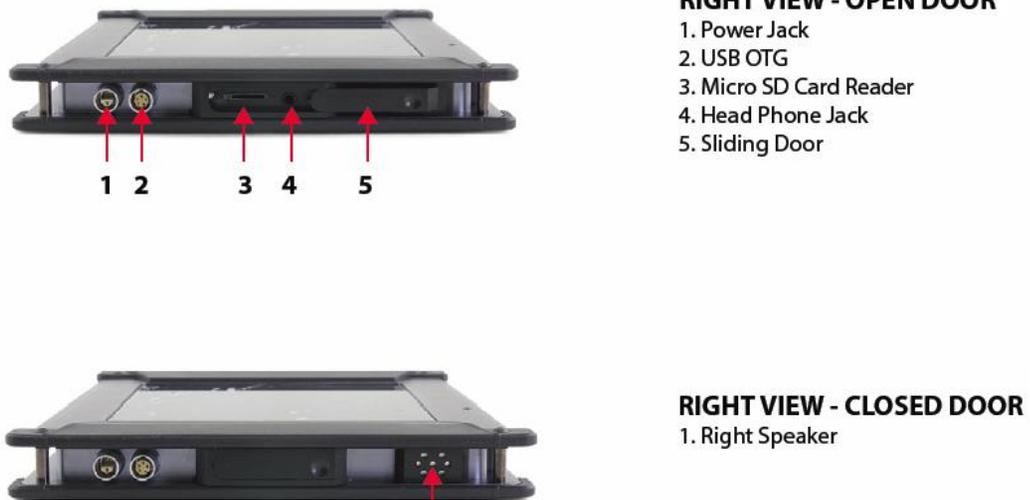


Figure 1-5: Right Panel

1.7 Top Panel

The top panel contains power button, volume controls, and a light sensor.



Figure 1-6: Top Panel

1.8 Technical Specifications

The AT80 technical specifications are listed in the table below.

| Display | |
|---------------------------------|--|
| LCD Size | 8" |
| Brightness (cd/m ²) | 350 |
| Max. Resolution | 1024 x768 |
| Viewing Angle | 85° (H) x 85° (V) |
| Touchscreen | 10-point capacitive |
| System | |
| CPU | Texas Instrument OMAP 4470 Dual-core 1.5GHz |
| Operating System | Android 4.3 |
| Memory | 1GB LPDDR RAM |
| Storage | 8 GB (Built-in) Supports SDHC up to 32GB (Micro SD) |
| Communication | |
| Wi-Fi | 802.11 b/g/n |
| GPS | GPS |
| Data Collection | |
| Camera | 5-megapixel front/rear camera |
| | |
| Buttons | Power button Volume down Volume up |
| Sensors | |
| G Sensor | Yes |
| E compass | Yes |
| Light Sensor | Yes |

| I/O Interface | |
|-------------------------------------|--|
| Audio | Speakers 1 watt x 2 3.5mm headphone jack x 1 |
| USB | Standard: Micro SD card x 1 Power jack x 1 USB2.0 OTG x 1 PCIe /USB x 1 (internal) SIM holder x 1 (internal) USB2.0 x 3 (Internal). |
| Power | |
| Power Adapter | 12Vdc 2.4A |
| Battery | 3.7V/4200 mAh Li-Ion Battery |
| Environment | |
| Operating Temperature | -4 F° to 140F° (-20 C° to 60 C°) |
| Storage Temperature | -40F° to 140F° (-40 C° to 60 C°) |
| Battery Charging Temperature | 32F° to 113F° (0 C° to 45 C°) |
| Humidity | A. 514.6, Procedure 1, Category 20 B. 514.6, Procedure I, Category 14 C. 514.6, Procedure I, Category 4 |
| Drop Survival | 4 feet onto 2" plywood |
| Environment Protection | IP 67 |
| Physical Characteristics | |
| Dimensions (L x W x H) | 11 3/4" (L) x 6 7/8" (W) x 15/16" (H) |
| Weight | 1.65 lbs (0.75 kilogram) |
| Vibrator Motor | Yes |
| 3G Module (Optional) | Cinteron LGA PXS8 |

Table 0-1: Technical Specifications

1.9 Dimensions

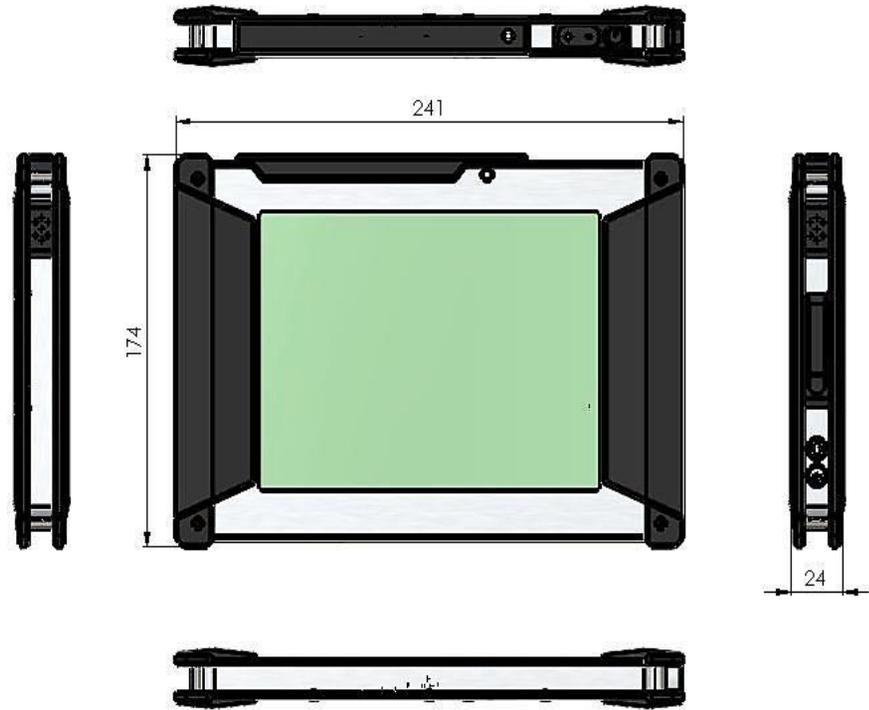


Figure 1-7: Dimensions (millimeters)

Chapter

2

Unpacking

To unpack the Flexpedient® AT80 Tablet follow the steps below:



WARNING!

Remove the protective plastic cover stuck to the front screen after receiving.
The plastic layer protects the display surface during shipping.

Step 1: Carefully cut the tape sealing the box. Only cut deep enough to break the tape.

Step 2: Open the box.

Step 3: Lift the Flexpedient® AT80 Tablet out of the box.

Step 4: Pull the plastic cover off the Flexpedient® AT80 Tablet.

Step 5: Make sure all the components listed in the packing list are present.

The Flexpedient® AT80 Tablet is shipped with the following components. If any of these items are missing or damaged, contact the distributor or sales representative immediately.

| Quantity | Item | Image |
|----------|--------------------------|--|
| 1 | Flexpedient® AT80 Tablet |  |
| 1 | AC adapter |  |
| 1 | USB OTG Client Cable |  |

Table 2-1: Packing List

Installation

3.1 Charging Flexpedient® AT80 Tablet Battery

Every Flexpedient® AT80 Tablet is shipped with a fully charged battery. See instructions in Section 4.1 for powering the tablet and charging the battery.



Figure 3-1: Connecting the Flexpedient® AT80 Rugged Tablet to the Power Adapter

3.2 Powering On/Off

- **Powering On:**

To power on/off the Flexpedient® AT80 Rugged Tablet, please follow the steps below:

- 1) Press the Power button (1 to 2 seconds) to turn on your tablet. Prolonged pressing is NOT necessary. (See Figure 3-3 below)
- 2) Every Flexpedient® AT80 Tablet is shipped with an Android 4.3 (Jelly bean) operating system installed. There is no installation wizard.
- 3) Every Flexpedient® AT80 Tablet is shipped with a fully charged battery. It is recommended that you check the power image in the upper right hand corner of the tablet's display to determine whether or not your battery needs charging.

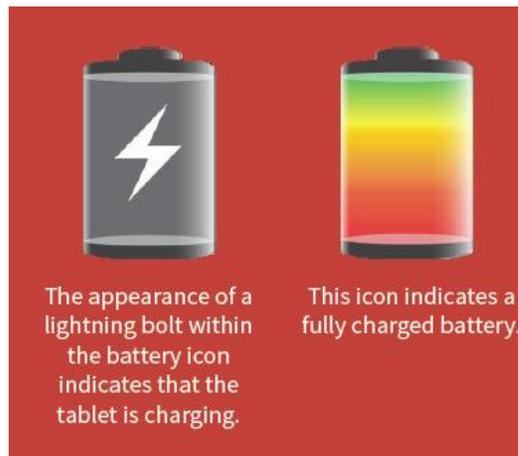


Figure 3-2: Battery Icons

- 4) The battery is designed to be replaced only by a certified AMREL employee. The Flexpedient® AT80 Tablet must be sent to AMREL in order for a battery to be replaced. See Appendix C for instructions on returning a tablet to AMREL.



Figure 3-3: Power Button

- **Powering Off:**

Press power button until box appears.

Select power off.

Select OK.

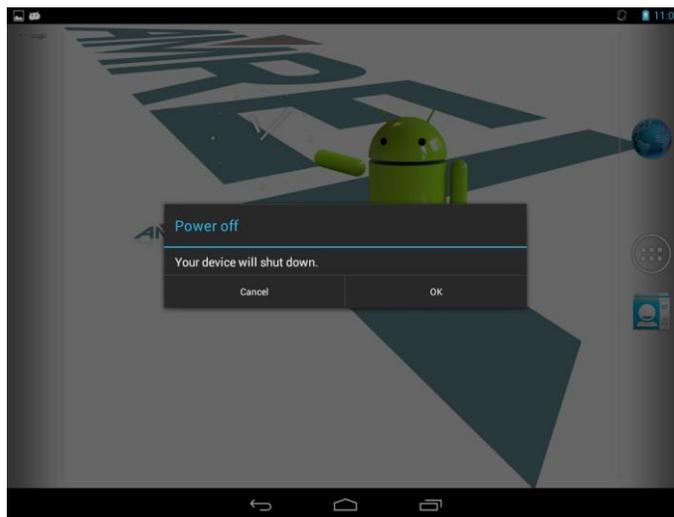
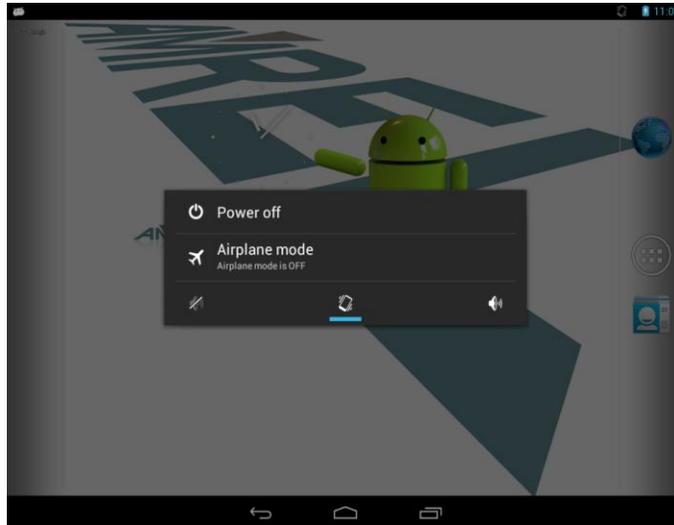


Figure 3-4: Power Off screen



NOTE:

When the Flexpedient® AT80 Tablet is powered on, press the power button once to suspend the Flexpedient® AT80 Tablet. To resume operation from the suspend mode, press the power button once.

Chapter

4

Using the Flexpedient[®] AT80 Rugged Tablet

4.1 Using the USB OTG Client Cable

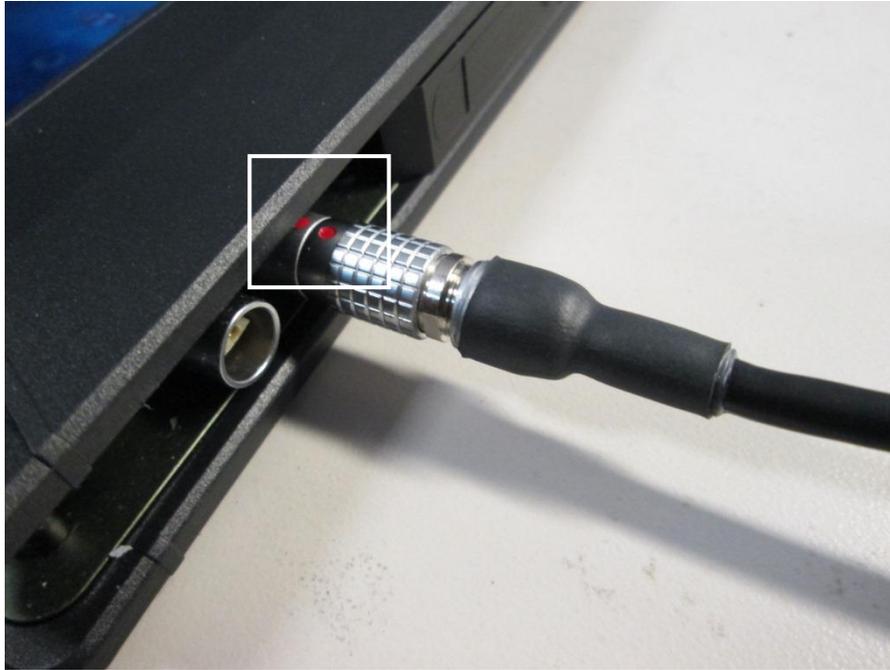


Figure 4-1: USB OTG Client Connection

- 1) The USB OTG Client Cable can be used to establish a host/client relationship with another computer.
- 2) Insert the USB OTG end of the cable into the appropriate connector on the tablet. Make sure both red dots line up to ensure the connector pins are aligned. Insert the USB end into the USB connector on the computer.
- 3) When inserting or removing the USB OTG cable, be sure to grasp the ends, not the cable itself. Inserting or removing the USB OTG cable by grasping the cord is not recommended.

4.2 Using the Micro SD slot

Slide the I/O door open to insert SD Micro card.

Note: Door can be closed with SD card inserted



Figure 4-2 Micro SD slot

4.3 Using the Headphone Jack

Slide the I/O door open to plug in 3.5mm Headphone jack.

Note: The internal speakers will be disabled.



Figure 4-3: 3.5 mm Headphone Jack

4.4 Volume control



Press + or – to raise or lower volume

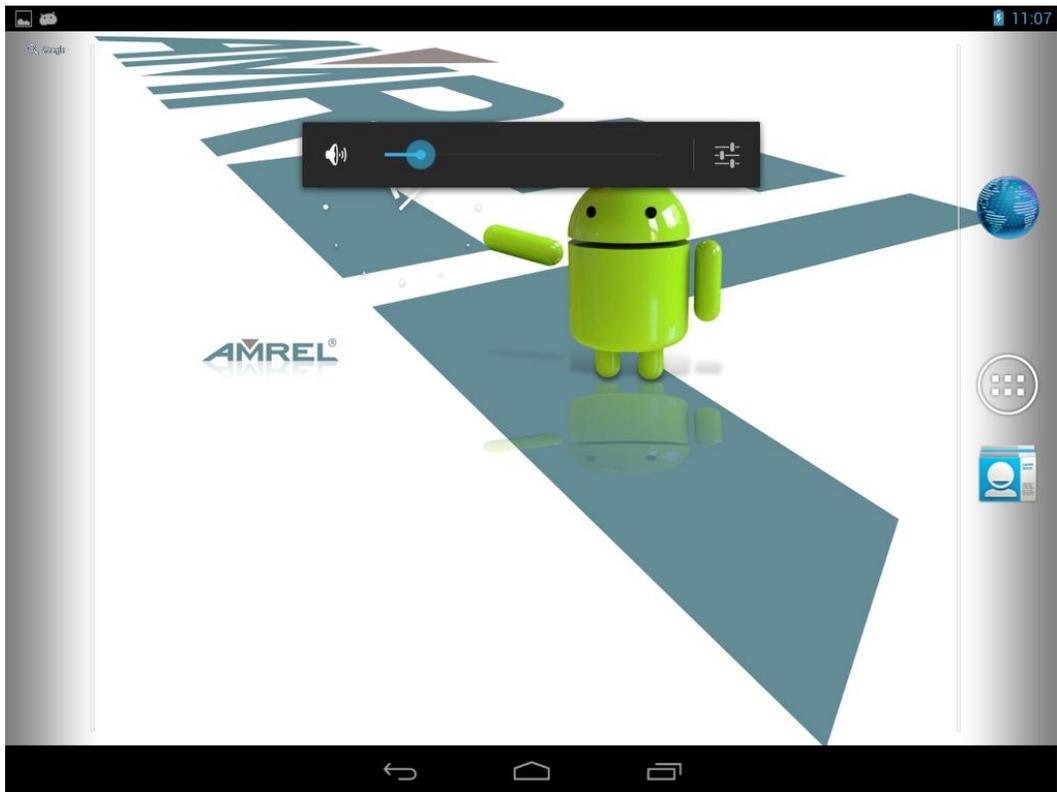


Figure 4-4: Volume bar

4.5 Home Screen



Figure 4-5: Favorites Tray

The Favorites tray at the right side of each home screen allows users to keep the most important or frequently used shortcuts and folders.

Tap the All Apps button at the right side center of the home page to access the launcher/widget page.



All Apps button

4.6 Adding Shortcuts

To add app or widget shortcuts on the home screen, follow the steps below.

Step 1: Tap the All Apps button on the home screen to access the launcher/widget page.

Step 2: Long press an app icon or a widget (click the WIDGETS tab to access the widgets page) and drag it to the home screen.

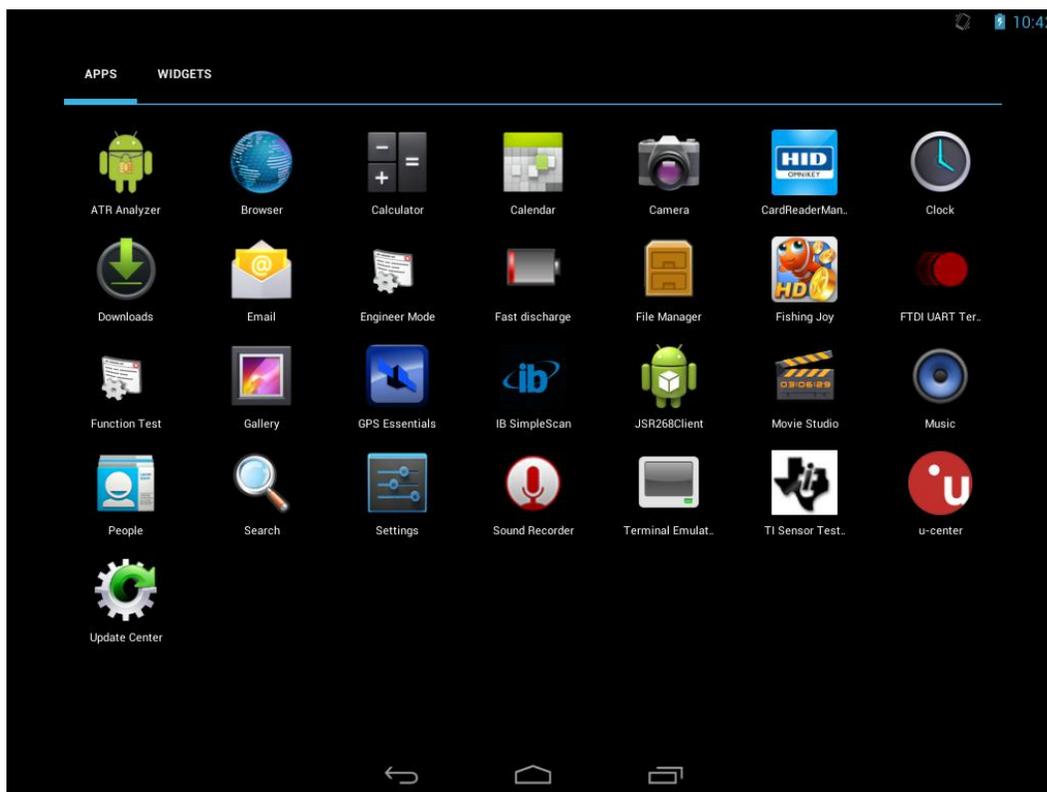


Figure 4-6: Launcher Page

4.7 Arranging the Home Screen

The items on the home screen can be moved and deleted. Long press an item on the home screen and drag it where you want. To trash the item on the home screen, drag the icon to X on left top corner

Trash



Figure 4-7: Move and Trash Item on Home Screen

4.8 Navigation Buttons

The three navigation buttons shown in **Figure 4-8** can always be found at the bottom of the screen.



Figure 4-8: Navigation Buttons

| Buttons | Description |
|---------|--|
| Back | Tap to return to the previous screen. |
| Home | Tap to return to the home screen. |
| Recent | Tap to display all the recently used applications. |

Table 4-1: Navigation Buttons

4.9 Status Bar

The status bar on the top of the screen (**Figure 4-9**) displays the pending notifications and status, such as battery level or signal strength. Swipe down from the status bar to view notifications



Figure 4-9: Status Bar

4.10 Settings

The Settings menu allows configuration to the Flexpedient® AT80 Tablet, such as Wi-Fi, volume, display brightness, etc. To enter the Settings menu, tap **Settings** on the launcher page.



Settings icon



Figure 4-10: Settings Menu

4.10.1 Wireless & Networks



Figure 4-11: Wireless & Networks Settings

In the WIRELESS & NETWORKS field, the user can turn on/off the Wi-Fi, Ethernet and Bluetooth functions, and view the data usage status.

- **Ethernet:**

Allows the user to turn Ethernet function. Will need optional RJ-45 dongle or optional built in RJ-45 port to function

- **Wi-Fi:**

Allows the user to turn on or off the Wi-Fi function. When the Wi-Fi function is turned on, tap this item to manage the access points.

- **Bluetooth:**
Allows the user to turn on or off the Bluetooth function. When the Bluetooth function is turned on, tap this item to manage the Bluetooth connections.
- **Data usage:**
Allows the user to view data usage status.



Figure 4-12: Ethernet configuration

4.10.2 More Settings

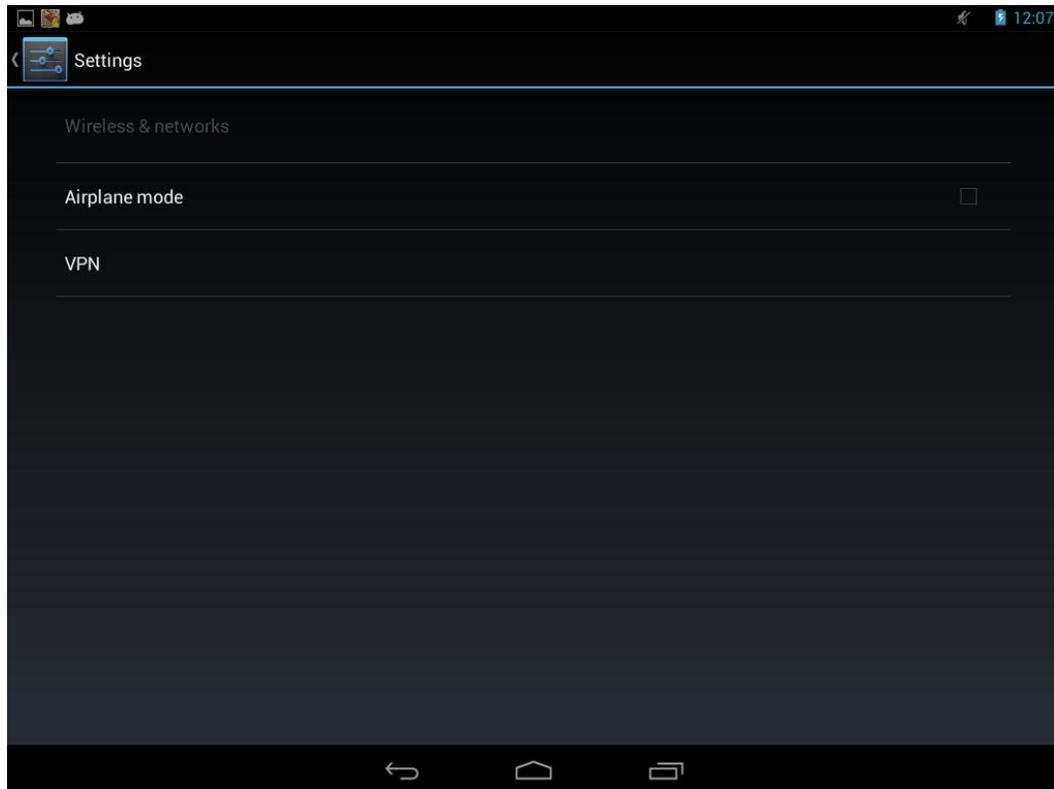


Figure 4-13: More Settings Menu

After tapping **More** in the WIRELESS & NETWORKS field, the user can configure the following network settings.

- **Airplane mode:**
Turns on or off the airplane mode.
- **VPN:**
Sets up and manages Virtual Private Networks (VPNs).

4.10.3 Audio Profiles

The Audio Profiles menu allows the user to configure the audio settings.

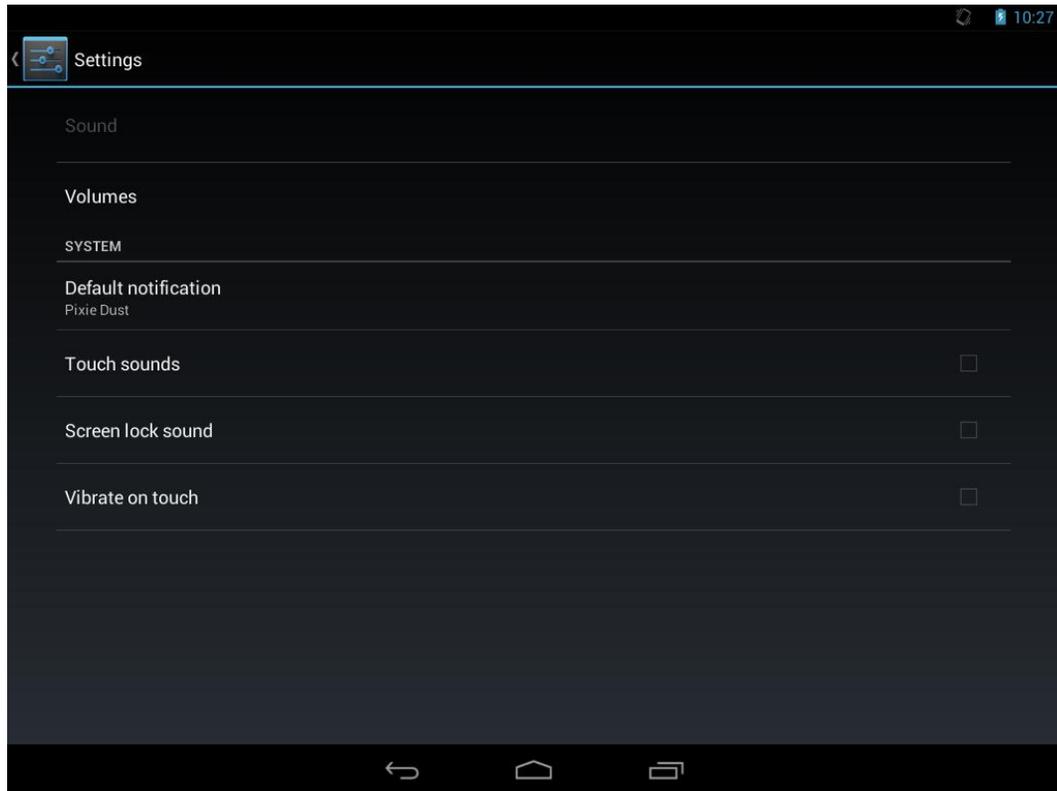


Figure 4-14: Audio Profiles

4.10.4 Display Profiles

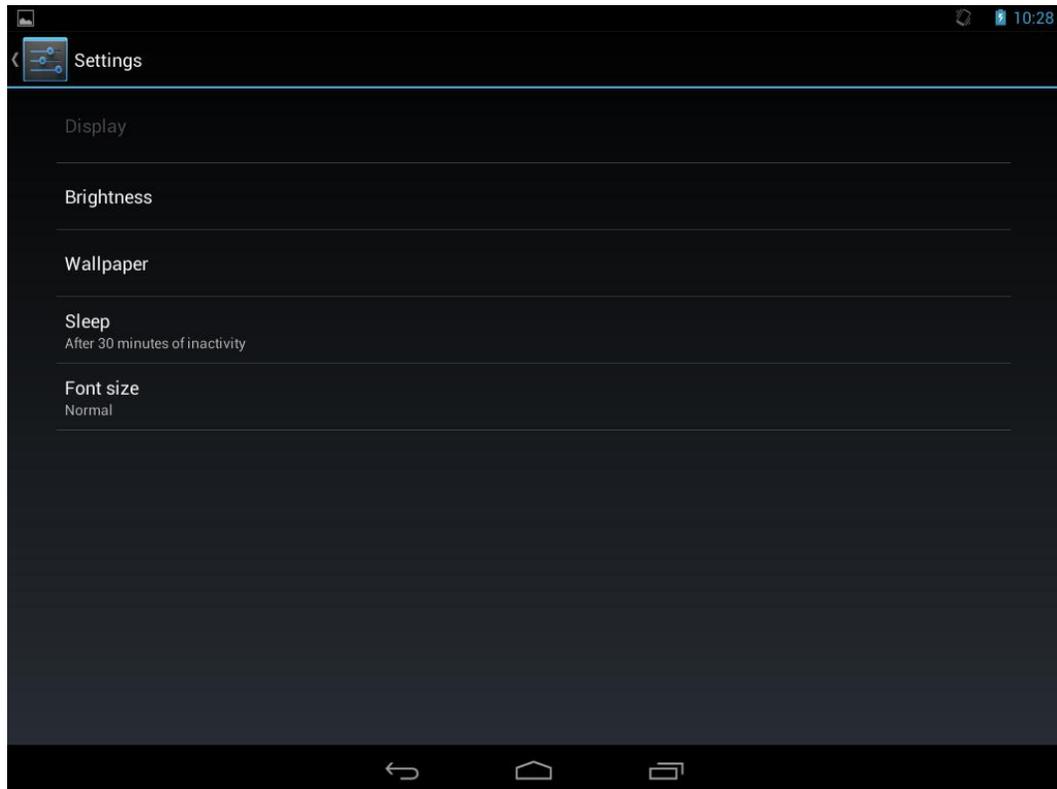


Figure 4-15: Display Menu

Use the Display menu to configure the following items.

- **Brightness:**
Adjusts the screen brightness.
- **Wallpaper**
Sets up the wallpaper.
- **Sleep:**
Sets up the time of inactivity after which the screen turns to sleep mode.
- **Font size:**
Sets up the font size.

4.10.5 Storage

The Storage menu displays the status of the internal storage and any inserted micro SD card, and allows users to manage the data stored in them.

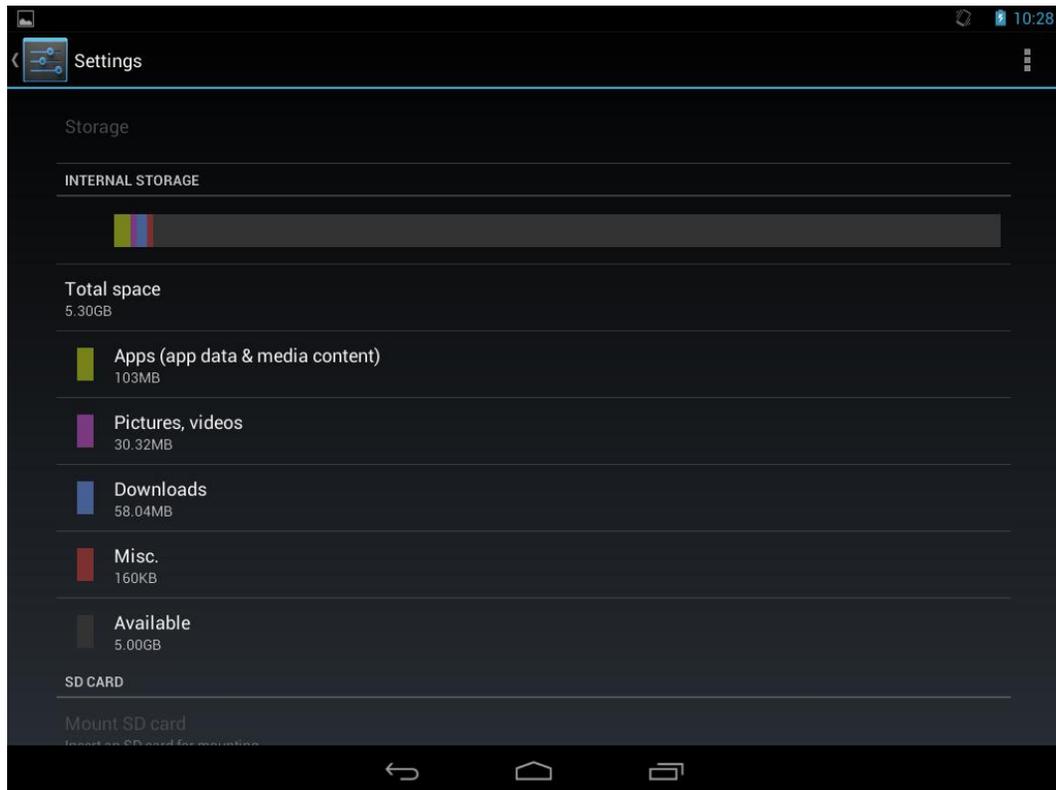


Figure 4-16: Storage Menu

4.9.6 Battery

The Battery menu displays the battery status, battery percentage, device /apps power use, and battery history.

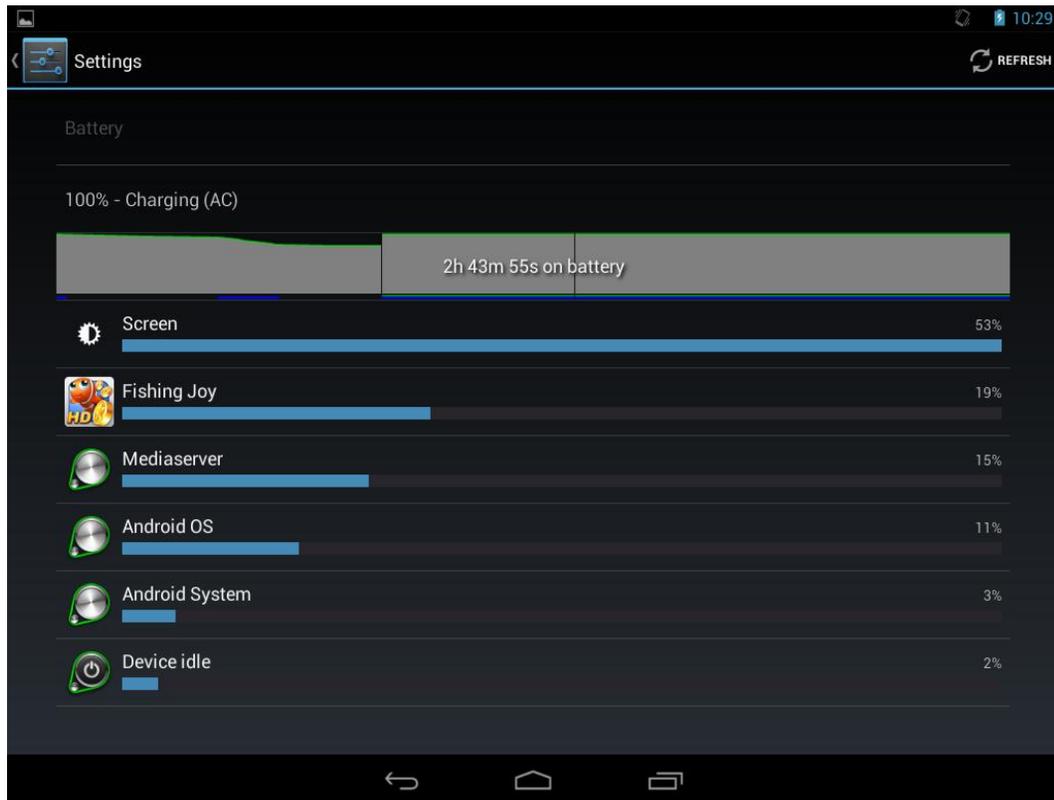


Figure 4-17: Battery Menu

4.10.7 Apps

The Apps menu displays the applications installed on the device, and allows users to manage them.



Figure 4-18: Apps Menu

4.10.8 Location services

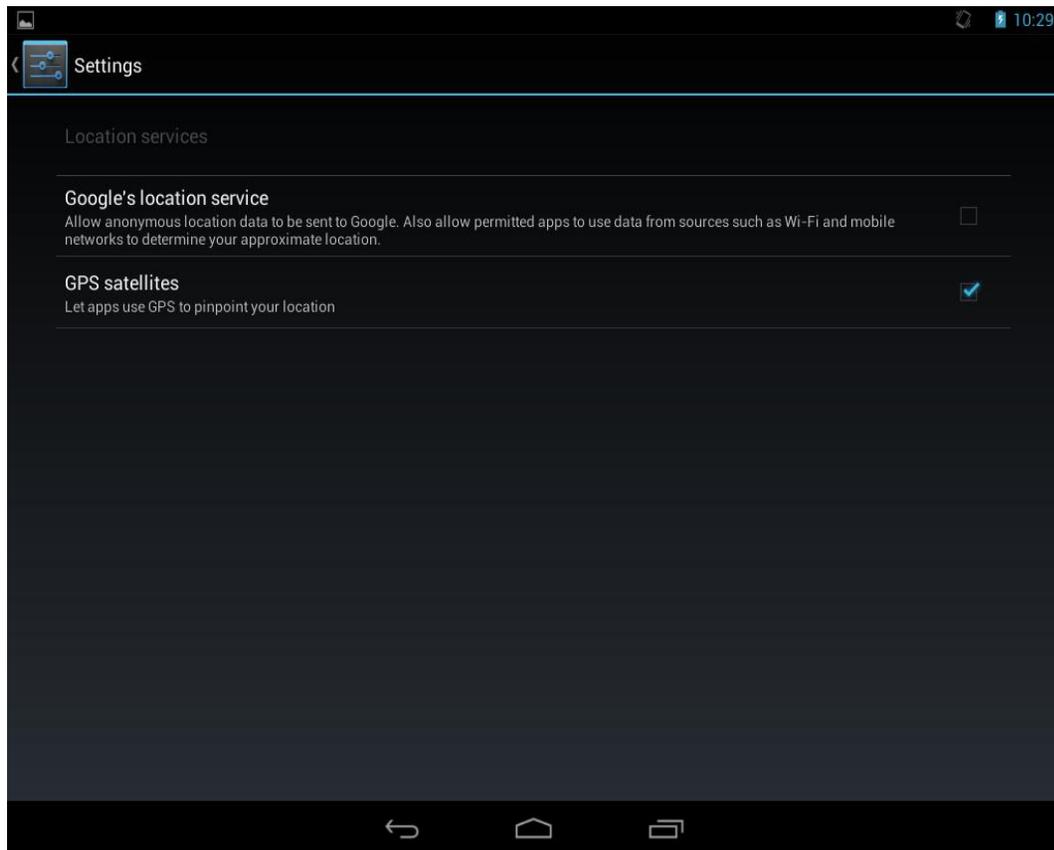


Figure 4-19: Location Services

Use the Location service menu to configure the following items.

- **Google location service:**
Enabling this item allows the apps to use Google's location service to estimate the user's location.
- **GPS satellites:** Enabling this item allows the internal GPS in the device to pinpoint location.

4.10.9 Security



Figure 4-20: Security Menu

Use the Security menu to configure the following items:

- **Screen lock:**
Set up the way to unlock the screen.
- **Owner info:**
Enable this item to show the information of device owner on the lock screen.
- **Make passwords visible:**
Enable this item to show password when typing.
- **Device administrators:**
Views or deactivates the device administrators.

- Taps to install certificates from the micro SD card. **Unknown sources:**
Enable this item to allow installation of applications from unknown sources.
- **Verify apps:**
Enable this item to verify apps before installation.
- **Trusted credentials:**
Tap to display the CA certificates.
- **Install from SD card:**
Enable this item to install certificates from SD card

4.10.10 Language & Input



Figure 4-21: Language & Input Menu

Use the Language & input menu to configure the following items:

- **Language:**
Sets up the language for Flexpedient® AT80 Tablet.
- **Spell checker:**
Allows the user to enable the spell checking function and to configure its settings.
- **Personal dictionary:**
Configures the user dictionary.
- **Keyboard and input methods:**
Sets up the input methods.
- **Voice Control:**
Configures the voice control settings.
- **Voice Search:**
Configures the voice search settings.
- **Text-to-speech output:**
Configures the text-to-speech settings.
- **Pointer speed:**
Sets up the pointer speed.

4.10.11 Backup & Reset

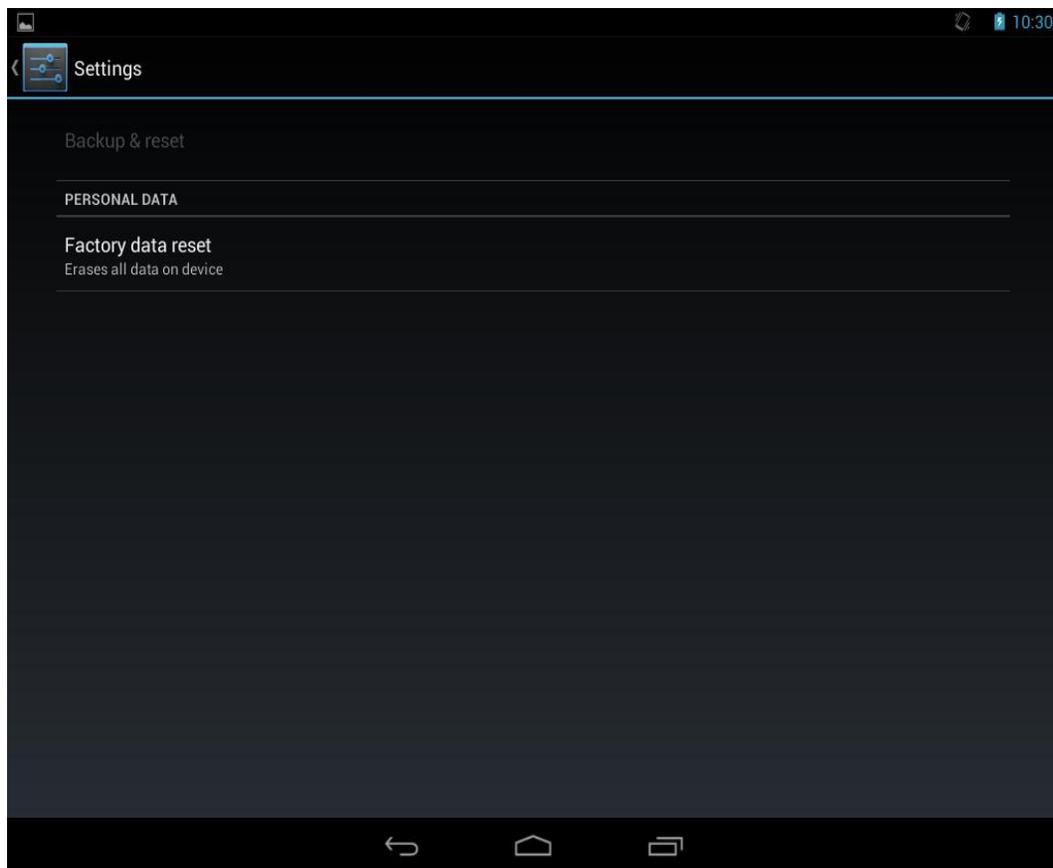


Figure 4-22: Backup & Reset Menu

Use the Back & Reset menu to configure the following items.

- **Back up my data:**
Enables to back up the app data, Wi-Fi passwords and other settings to Google servers.
- **Automatic restore:**
This item is available only when the **Back up my data** item is enabled. Enabling this item to restore backed up setting and data when reinstalling an app.
- **DRM reset:**
Deletes all the DRM licenses on the Flexpedient® AT80 Tablet.

- **Factory data reset:**
Erases all data from the internal storage of the Flexpedient® AT80 Tablet.

4.10.12 Add an Account

Tap **Add account** to start setting up an e-mail or corporate account.

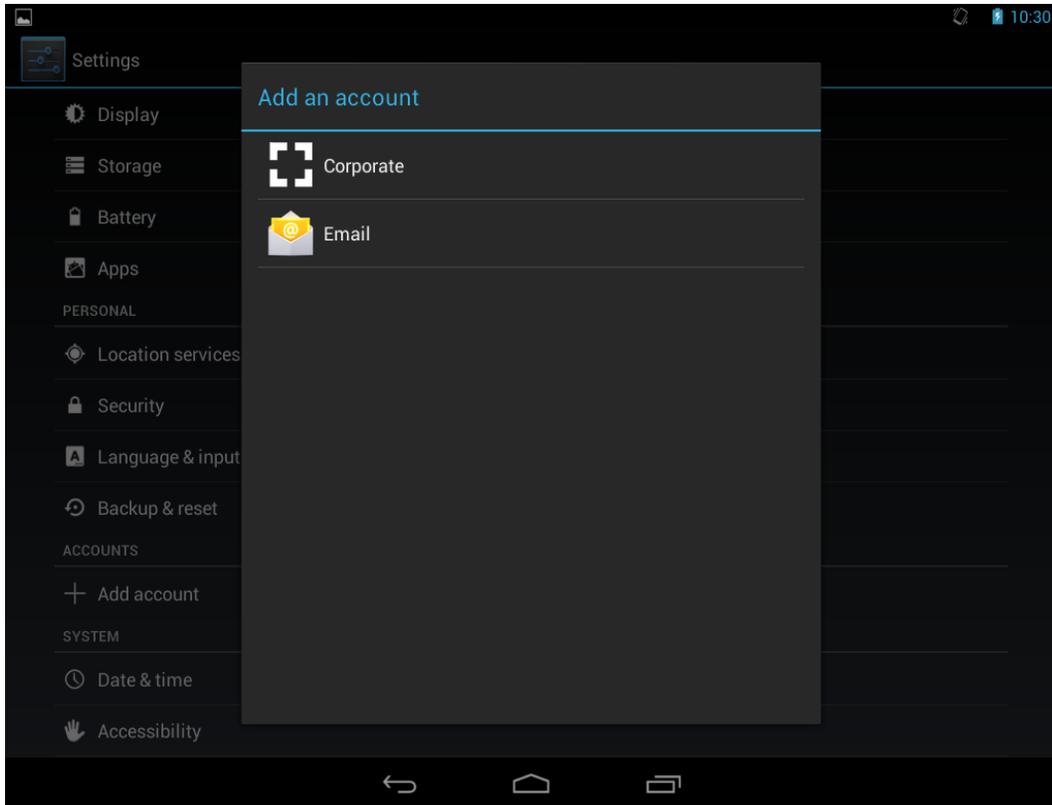


Figure 4-23: Add Account Menu

4.10.13 Date & Time

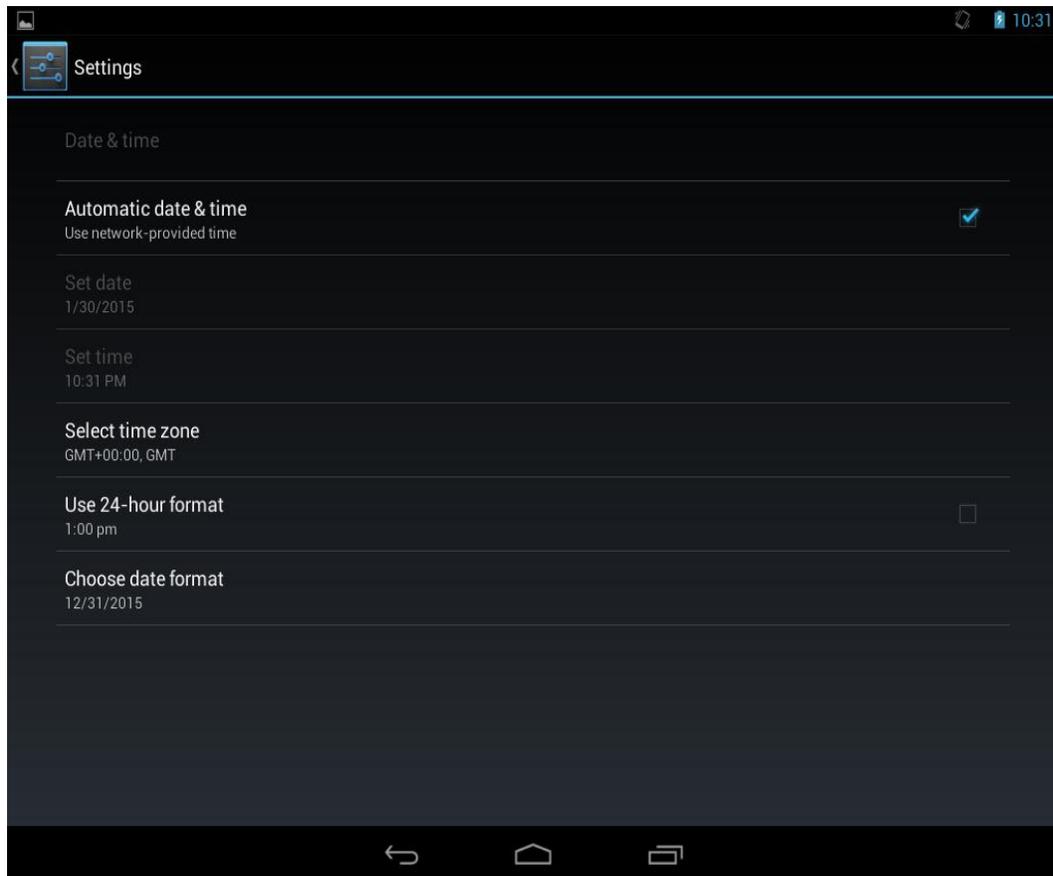


Figure 4-24: Date & Time Menu

Use the Date & Time menu to configure the following items:

- **Automatic date & time:**
Enable this item to use the network-provided date & time.
- **Set date:**
Sets up the system date. This item is available only when the **Automatic date & time** item is set to **off**.
- **Set time:**
Sets up the system time. This item is available only when the **Automatic date & time** item is set to **off**.

- **Select time zone:**
Sets up the time zone. This item is available only when the **Automatic time zone** item is disabled.
- **Use 24-hour format:**
Turns on to use the 24-hour format.
- **Choose date format:**
Sets up the date format.

4.10.14 Accessibility

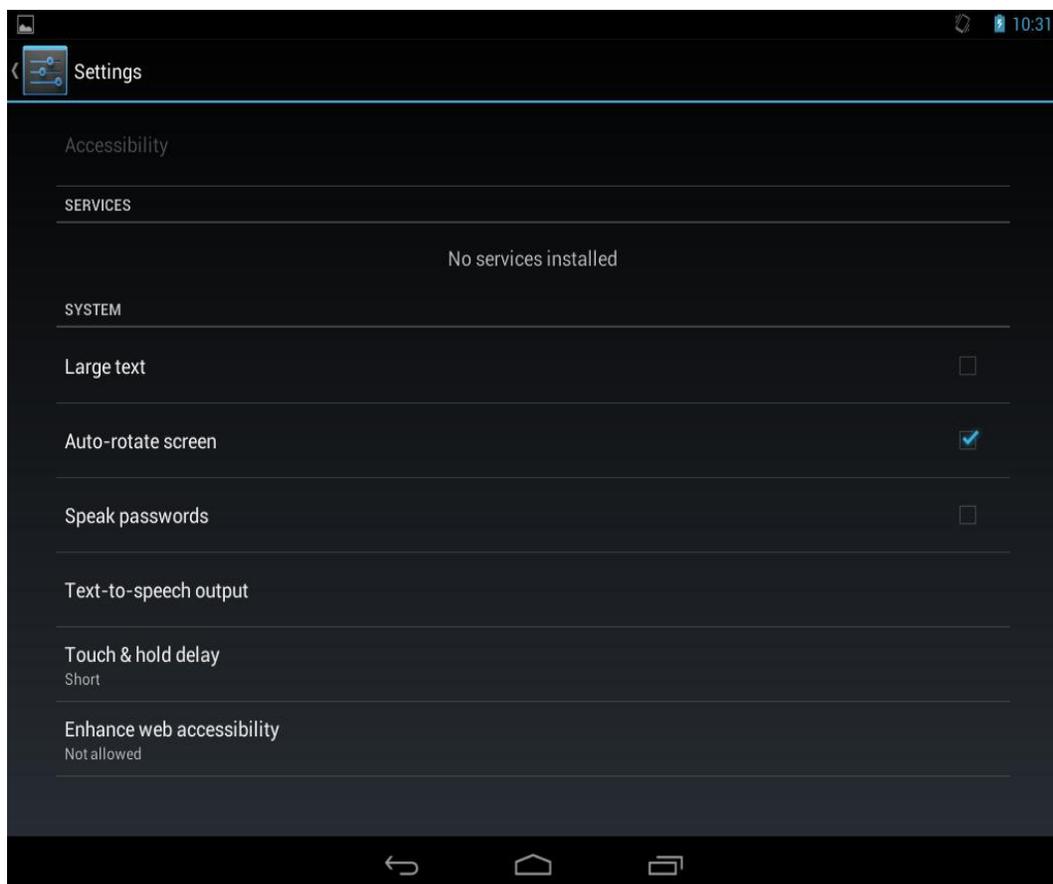


Figure 4-25: Accessibility Menu

Use the Accessibility menu to configure the following items.

- **Large text:**
Enable to use large text.

- **Auto-rotate screen:**
Turns on or off the auto-rotate function of the screen.
- **Speak passwords:**
Turns on or off the speak password function.
- **Text-to-speech output:**
Configures the text-to-speech settings.
- **Touch & hold delay:**
Configures the touch & hold delay settings.
- **Enhance web accessibility:**
Turns on to allow apps to install scripts from Google that make their web content more accessible.

4.10.15 Developer Options

The Developer options menu contains several settings for development use which may cause the device and the applications on it to crash or lockup. Be cautious prior to changing these settings.



Figure 4-26: Developer options enabled

4.10.16 About Device

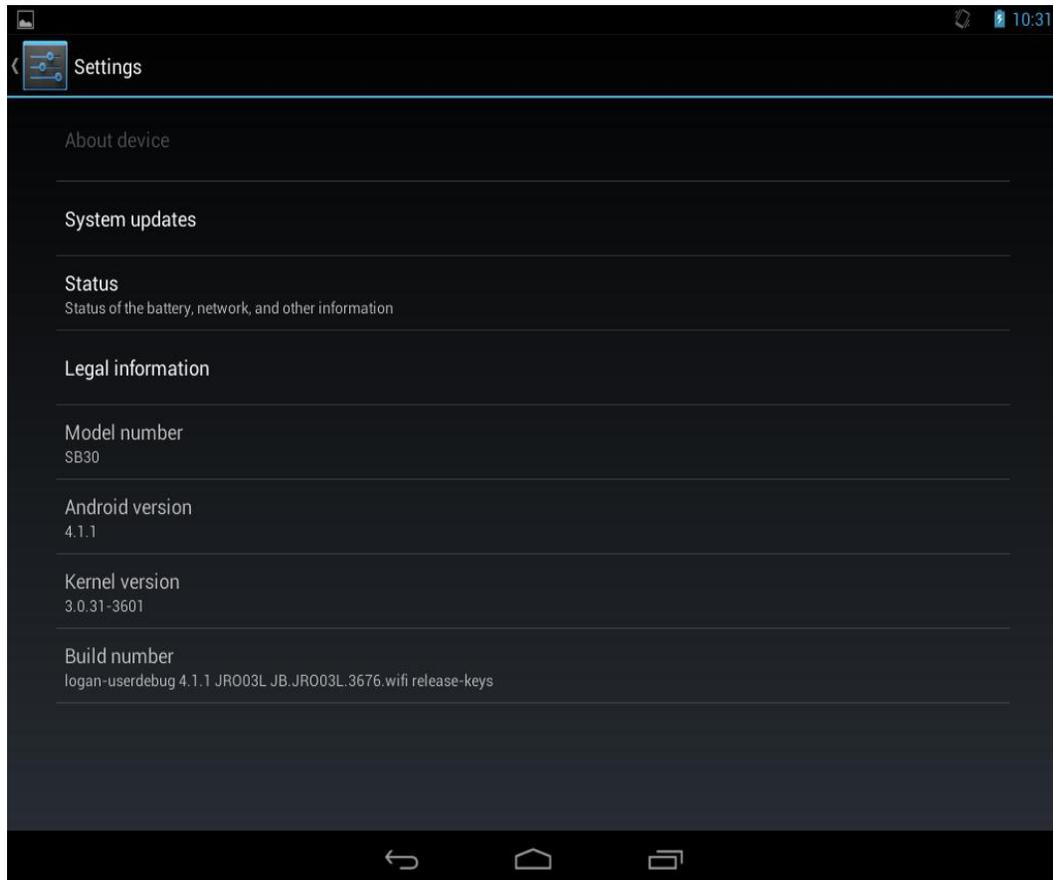


Figure 4-27: About Device

Use the About device menu to check for new versions of software/system and display the following items.

- **System updates:**
Tap to update the system.
- **Status:**
Tap to display the status of batteries, network, signal, etc.
- **Legal information:**
Tap to display the legal information.
- **Model number:**
Displays the model number.

- **Android version:**
Displays the Android OS version.
- **Kernel version:**
Displays the kernel version.

4.10.17 Camera

The AP Flexpedient® AT80 Rugged Tablet is equipped with two 5-megapixel cameras.

Tap **Camera** on the application page to launch it.



Camera icon

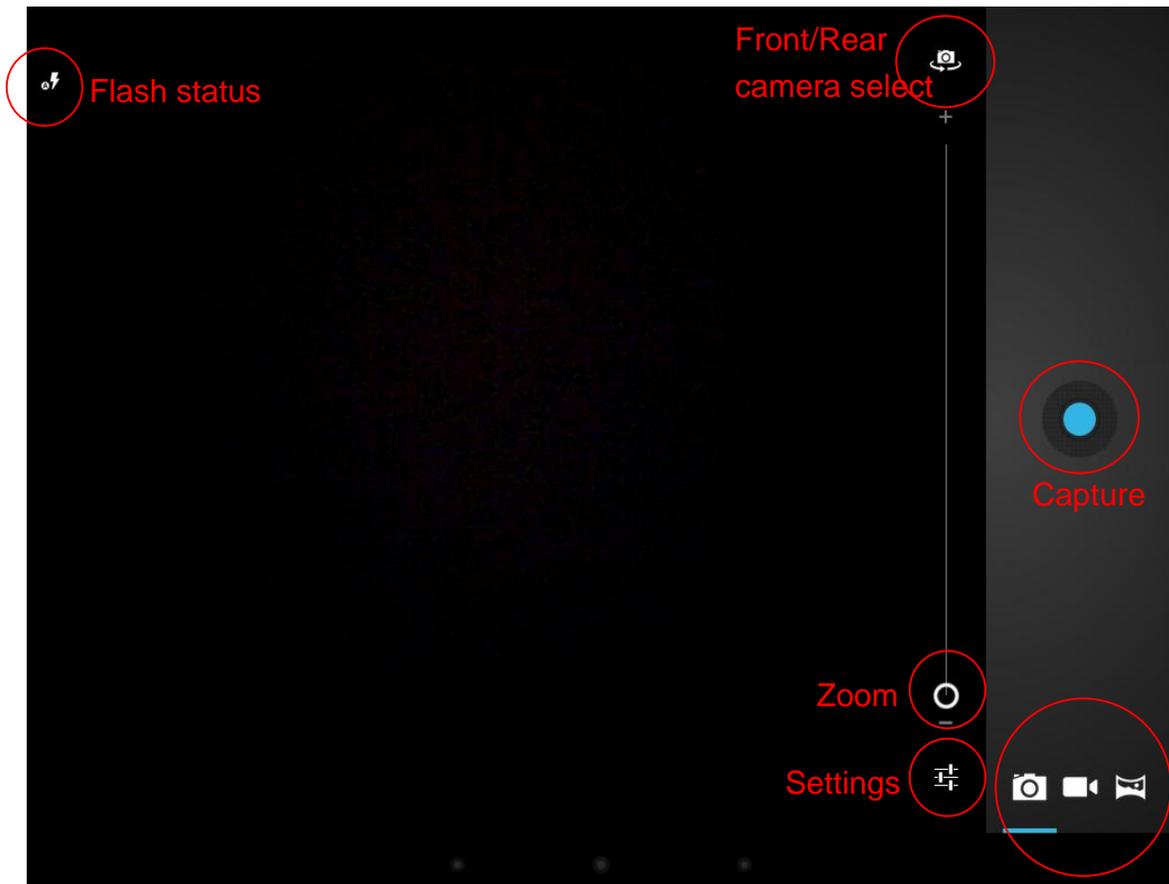


Figure 4-28: Camera Application

Modes select still camera, motion, and panorama.

Appendix

A

Safety Precautions



WARNING:

The precautions outlined in this chapter should be strictly followed. Failure to follow these precautions may result in permanent damage to the Flexpedient® AT80 Tablet.

A.1 Safety Precautions

Please follow the safety precautions outlined in the sections that follow:

A.1.1 General Safety Precautions

In order to ensure safe and proper use, please read the following before operating Flexpedient® AT80 Tablet.

- 1) During in-house testing, Flexpedient® AT80 Tablet successfully operated in a temperature range between 60 C° and -20 C° (140 F° to -4 F°). However, prolonged exposure to severe heat/cold may interfere with operation and even result in damage.
- 2) Flexpedient® AT80 Tablet is designed to IP 67, but prolonged exposure to water, dust, and adverse conditions may interfere with its operation and even result in damage.
- 3) The AC adapter /power cord and USB OTG Client Cable may present a choking hazard to children and other individuals. The AC adapter /power cord and USB OTG Client Cable should be kept in an area not accessible to children and individuals who may attempt to swallow them.
- 4) As with any electrical devices, the AC adapter/power cord and USB OTG Client Cable should not be exposed to water, extremely hot, or humid places.
- 5) The case of the Flexpedient® AT80 Tablet is not designed to be opened by the end-user, and may not be safe to do so. Modification of the interior must be made by AMREL.
- 6) There are no end-user serviceable parts inside the tablet. Repairs, upgrades, and modifications must be performed by AMREL.

- 7) The Flexpedient® AT80 Tablet is designed for easy and quick customizations. However, customizations cannot be performed by end-users and must be done by AMREL.



NOTE:

A user cannot replace a motherboard or battery; If the unit fails it must be shipped back to AMREL to be replaced. Please contact the system vendor, reseller or an AMREL sales person directly.

A.1.2 Product Disposal



CAUTION:

Risk of explosion if battery is replaced by an incorrect type. Only certified engineers should replace the on-board battery.

Dispose of used batteries according to instructions and local regulations.

- Outside the European Union - If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.
- Within the European Union:



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow

the guidance of your local authority, or ask the shop where you purchased the product.

The mark on electrical and electronic products only applies to the current European Union Member States.

Please follow the national guidelines for electrical and electronic product disposal.

A.1.3 FCC (Federal Communications Commission) Statement

This equipment has been tested and found to comply with the limits for a Class-B digital device pursuant 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 radiates radio frequency energy. If not being installed and used in accordance with the instructions, it 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:

- Re-orient 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.



FCC Caution:

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

A.1.4 CE

Products with the CE Marking comply with both the EMC Directive (2004/108/EC) and the Low Voltage Directive (2006/95/EC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

EN55022 CISPR 22 Radio Frequency Interference

EN55024 EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61000-3-2, EN61000-3-3, Generic Immunity Standard

LVD EN 60950-1: 2006+ A11: 2009+ A1: 2010+ A12: 2011

IEC 60950-1: 2005+AM1:2009

Warning:



To prevent possible hearing damage, do not listen to high volume levels for long periods.

A.1.5 R&TTE (CE) Manual Regulatory Requirement

WLAN - IEEE 802.11a/b/g/n

802.11a/b/g/n Restrictions:

European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835 GHz. In France, the equipment must be restricted to the 2.4465-2.4835 GHz frequency range and must be restricted to indoor use

Appendix

B

Repair, RMA, and Contact Information

B.1 Repair, RMA, & Contact information

All repairs of the Flexpedient® AT80 Tablet - external & internal - must be made by AMREL. The casing of the Flexpedient® AT80 Tablet is not designed to be opened by the end-user, and may not be safe to do so. All modifications of the interior, including repair must be made by AMREL.

- **To return an item to AMREL for repair, upgrade, or modification**

To begin the RMA process, visit: amrel.com/contact-amrel or contact AMREL at:

Mail: American Reliance, Inc.
3445 Fletcher Ave El Monte, CA 91731
Phone: 800-882-6735
Email: cdsupport@amrel.com

- **To contact AMREL for purchase, technical support, or any reason:**

Mail: American Reliance, Inc.
3445 Fletcher Ave El Monte, CA 91731
Phone: 800-882-6735
Email: cdsupport@amrel.com