for iPod touch, iPhone and iPad

SOFTWARE USER GUIDE



Overview

Emprum's UltiMate GPS App (available on the App Store) is a software application which you can interact with your UltiMate GPS accessory. The application may be used to view your GPS coordinates and GPS satellite information, and is also used for hardware monitoring and management of your UltiMate GPS accessory.

Your UltiMate GPS accessory adds state-of-the-art GPS capabilities to your iPod touch, iPhone or iPad and is designed to be compatible with all third party location-based applications available on the App Store. Please refer to the UltiMate GPS user guide for more details. User guides are available online from www.emprum.com.

Getting started

- Install Emprum's UltiMate GPS App available on the App Store on your iPod touch, iPhone or iPad (further referred to as iPod).
- Have your UltiMote GPS hardware accessory ready to go.
- Start up Emprum's UltiMote GPS App



Hardware requirements

The UltiMate GPS App requires an UltiMate GPS accessory to be plugged into your iPod. If no accessory is plugged in, the application will show a warning message that the accessory could not be found as shown in the figure to the right.

Press "OK" to clear the message.







Connecting your UltiMate GPS

After the UltiMate GPS accessory is plugged into the iPod, the application will recognize its presence and display a message as shown in the left figure.

The orange LED power icon \bigcirc on your UltiMote GPS will be on after the accessory is recognized by the iPod, and the blue LED satellite icon \mathscr{K} will be on when a location-based application is running on the iPod (refer to the UltiMote GPS user guide for more details on the LED icon display).

Press "OK" to clear the message.

Application features

The **GPS tab** displays a compass bearing, latitude and longitude information, speed and altitude. The screen also provides display of the LED indicator status on your UltiMate GPS accessory (refer to the UltiMate GPS accessory user guide for more details).

The color of the satellite icon in the top left corner of the screen indicates the GPS satellite lock status:



GPS engine has no fix

- GPS engine has a 2D fix
- GPS engine has a 3D fix

GPS engine has a 3D differential fix



UltiMate	GPS I	qqF
----------	-------	-----

Back	GPS	Data	
Date and	d Time		
GPS Tin	ne (GMT)		17:25:36
GPS Da	te		03/02/11
GPS Info	ormation		
Latitude	•	33° 41'	32.7172"
Longitu	de	-117° 46'	27.2438"
Altitude			55.40 m
Speed		3	.11 km/h
×.	A		Ö
GPS	Satellites	Hardware	Preferences

Additional information about the GPS position and lock may be obtained by tapping the *i* icon in the top right corner of the GPS tab.

The **GPS Data** information screen that subsequently opens, shows the GPS time and date, latitude, longitude, altitude, speed and bearing, fix mode and dilution of precision of the satellite lock.

If you wish to return to the compass on the GPS tab, press the "Back" button in the top left corner of the screen.

The **Satellites tab** shows satellites acquired and their positions in the sky as shown in the adjacent figure. The concentric circles in the view signify the elevation angle of each satellite.

A list of all satellites in view can be pulled up from the bottom of the screen. The "Signal-to-Noise Ratio" (SNR) and "Satellite Number" tabs show graphical displays of the SNR (vert. axis) for each satellite (horiz. axis), ranked from left to right, by SNR and satellite number respectively.

The GPS lock status as described earlier is visible in the top left corner.





The **GPS tab** and **Satellites tab** allow you to customize the LED indicators on your UltiMate GPS accessory, e.g. for night viewing or lower power consumption. By tapping an LED indicator button on the iPod screen (blue, red, orange or green), you can turn its respective LED indicator on your UltiMate GPS accessory on or off.

Please take note of the following:

- The red LED indicator will always flash when the accessory is searching for a satellite lock.
- The green LED indicator can only be turned on/off when the USB cable is connected.

The **Hardware tab** allows you to monitor and interact with your UltiMote GPS accessory.

You can issue a hot, warm or a cold start to re-start the GPS engine. You can also reset your UltiMote GPS accessory to factory conditions, or upgrade its firmware.

The Hardware tab also shows various other information about your accessory, like its internal battery status, presence of the USB cable, and other hardware information such as product name and model, serial number, and firmware and hardware versions.





The **Hardware tab** also allows you to upgrade the firmware of your UltiMate GPS accessory.

When a firmware update becomes available, e.g. for feature enhancements or bug fixes, the application will show a message similar to the message in the figure to the left. Press "OK" to start the firmware update.

Do not quit the application, unplug the accessory, or turn off the iPod while the firmware update is in progress. A firmware update will take 2-3 minutes. A message will appear when the firmware update has been completed.

You may use the **Preferences tab** to set different application preferences, like preferred speed units. You can also prevent the application from going to sleep while in use by turning "Prevent Sleep Mode" on.

The Preferences tab also contains links to version and support information about Emprum's UltiMote GPS App, and links to information about Emprum's business philosophy.



Back to Preferences

Our humanitarian cause

Since 1999, the Chinese communist government has **brutally persecuted** and **violated the basic human rights** of Falun Gong supporters, affecting **millions of families** in China and around the world.

We want that to change.



Emprum's business philosophy

Success of a business is not only determined by the quality of its products and services. The impact of the business on the environment and the well-being of the planet and its people is equally important.

Emprum's business philosophy is aimed at having a positive impact on our environment by going "green, lean and clean," and to inspire and uplift global consciousness and awareness toward fellow human beings by including a humanitarian cause in its course of business.

Addendum

UltiMate GPS accessory and software

Emprum LLC assumes no responsibility, nor shall be held liable for any incidental or consequential damages resulting from the use of this product.

Warranty

For support and warranty details, please visit *www.empum.com*.

This document

The information in this document is subject to change without notice. Emprum LLC shall not be liable for technical or editorial errors or omissions contained herein, nor for incidental or consequential damages resulting from the use of this document.

Copyright notices

© 2011 Emprum LLC. All rights reserved. UltiMate GPS, UltiMate GPS App and the Emprum logo are trademarks of Emprum LLC.

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

iPod, iPod touch and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. iPad is a trademark of Apple Inc.