

CDMA PERSONAL GPS LOCATOR

Users Manual

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APT-210D - v 0.1

**AnyDATA**

AnyTime AnyPlace Any Wireless Data Solutions[™]

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	<p>RF Exposure Warning:</p> <p>The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized. In order to avoid the possibility of exceeding the FCC radio frequency exposure limit, human proximity to the antenna should not be less than 15 mm.</p> <p>Information to user (FCC Part 15.21):</p> <p>No changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p>
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1 INTRODUCTION

1.1 PURPOSE

This manual discusses the purpose and usage of the Personal GPS Locator (APT-210D).

1.2 TECHNICAL DETAIL

Please refer to [Technical Manual.pdf](#) for a more detailed description of the APT-210D.

1.3 REVISION HISTORY

The revision history for this manual is shown in Table 1.1.

Table 1.1: Revision History

Version	Date	Description
v 0.1	May 2009	Initial Release - APT-210D

2 PHYSICAL CONTENTS



Figure 2.1: Package Contents

The box should contain:

- **One APT-210D Personal GPS Locator**
- **One Power Adapter**
- **One Car Charger**
- **One User Guide**

If any of items on Figure 2.1 are missing, please contact AnyDATA or distributor/reseller where device was purchased.

3 DESCRIPTION: PERSONAL GPS LOCATOR (APT-210D)

3.1 THE LATEST IN GPS TECHNOLOGY

Utilizing both assisted and standalone GPS, APT-210D is able to determine your location via a combination of cell triangulation and the greatest number of GPS satellites available. APT-210D charges via the included USB wall charger. APT-210D is equipped with a battery life of 3-7 days with normal usage.

3.2 ALERTS & MESSAGES

APT-210D is equipped a configurable soft button for user-set alert functions for even more peace of mind.

3.3 TRACKING REPORTS

The APT-210D can be configured to continuously report its location on a user-defined chronological interval. The interval is remotely configurable and can be set via appropriate web and mobile software platforms. In addition to interval tracking, the APT-210D is capable of servicing single location requests on demand via one-time-fix requests made through the web/mobile platforms.

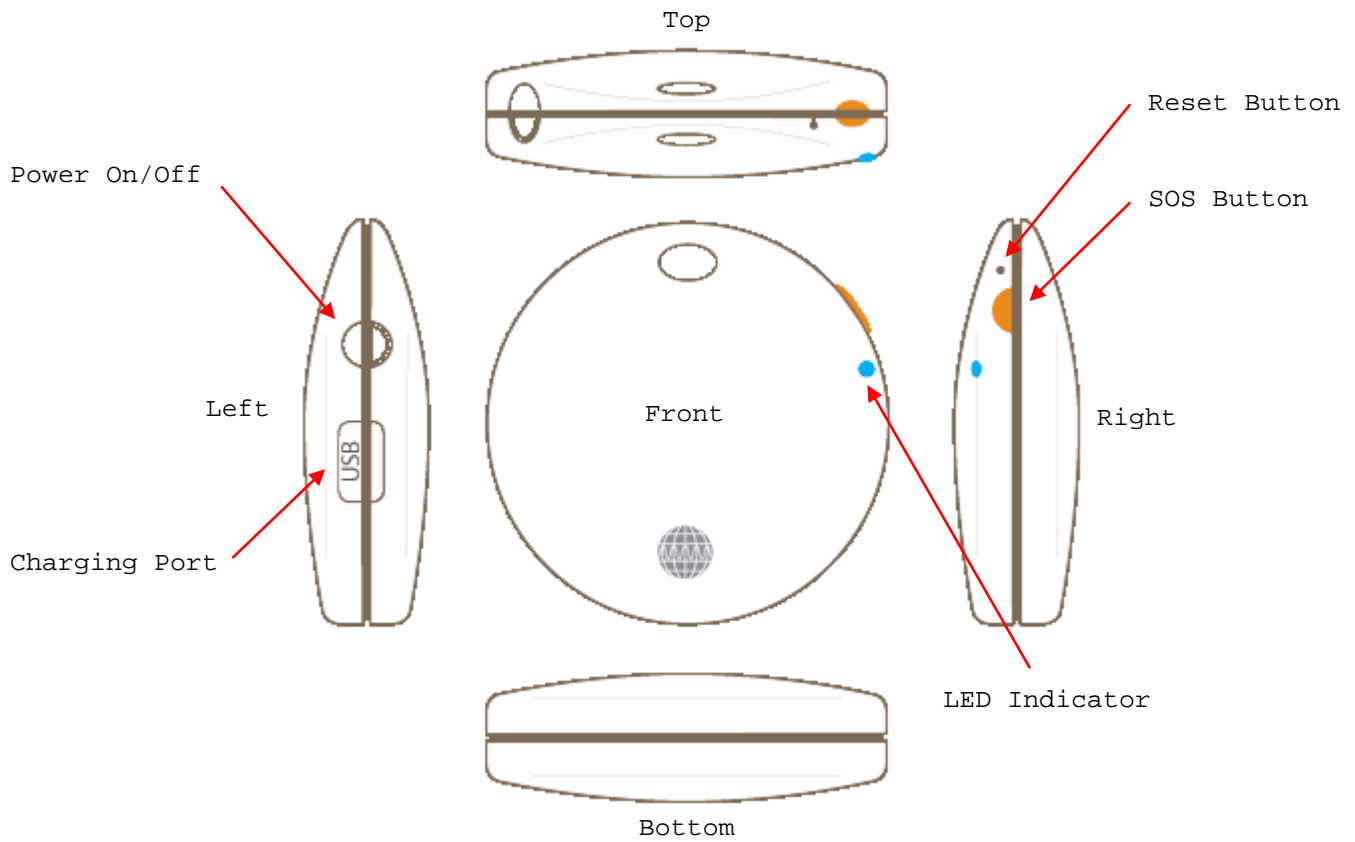


Figure 3.1: External Interface



Figure 3.2: LED Indicator

4 CHARGING THE PERSONAL GPS LOCATOR

4.1 USB POWER ADAPTER (WALL CHARGER & CAR CHARGER)

1. Before activating and using the APT-210D Personal GPS Locator for the first time, you will need to fully charge the battery.
2. The initial battery charge time will be 2 hours; each subsequent battery charge will be approximately 1 hour.
3. The APT-210D status LED Indicator will glow solid purple, indicating the APT-210D Locator is charging.
4. Once the APT-210D Status LED Indicator begins blinking blue, the APT-210D Locator is fully charged.

4.2 BATTERY LIFE

1. Your APT-210D battery will last 3 to 7 days (depending on frequency of locating the device).
2. In Standby mode, it will last up to 7 days.



Figure 4.1: USB Power Adapter (Wall Charger & Car Charger)



Figure 4.2: Asset Tag w/ External Power

4.3 BATTERY HANDLING

Lithium cells and batteries may get hot, explode or ignite and cause serious injury if exposed to abuse conditions. Be sure to follow the safety warnings listed below:

- **Do not** pierce the battery with nails, strike the battery with a hammer, step on the battery or otherwise subject it to strong impacts or shocks.
- **Do not** solder directly onto the battery.
- **Do not** expose battery to water or salt water, or allow the battery to get wet.
- **Do not** disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.
- **Do not** place the battery in or near fire, on stoves or other high temperature locations.
- If the device is to be used by small children, the caregiver should explain the contents of this document to the children and provide adequate supervision to ensure the device is being used appropriately.

- **Do not** place the battery in microwave ovens, high-pressure containers or on induction cookware.
- In the event the battery leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

5 POWERING ON/OFF THE PERSONAL GPS LOCATOR

5.1 POWERING ON/OFF

To Power ON:

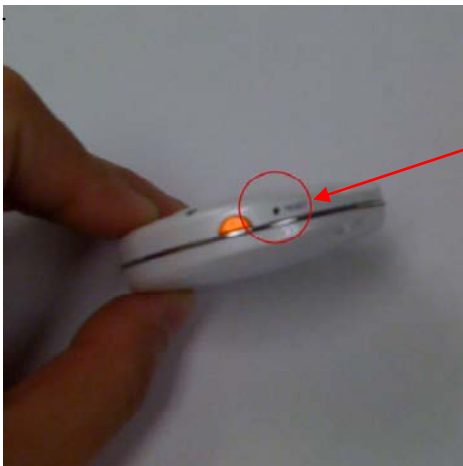
1. Switch the slider to the ON position.
2. Wait a few seconds until the APT-210D Status LED.
3. Indicator blinks twice quickly.
4. Blinking blue indicates the APT-210D is operating correctly.

To Power OFF:

1. Switch the slider to the OFF position.
2. Wait a few seconds until the APT-210D has properly shut down.
3. The APT-210D Status LED will be solid blue until it shuts OFF.

5.2 RESETTING THE APT-210D









1. In the unlikely event your APT-210D needs to be reset, switch the device to the OFF position.
2. Then, press and hold the Reset Button for 5 seconds with a small paperclip.
3. Your device is now reset.
4. Switch back to the ON position



Reset Button

Figure 5.1: Reset Button

6 CHECKING THE GPS LOCATOR STATUS

COLOR	LED INDICATOR	STATUS
	BLUE , 2 QUICK BLINKS	Power ON
	BLINKING BLUE	Locator is on Standby
	BLINKING BLUE (W/ POWER ADAPTER)	Charge is Complete
	SOLID BLUE UNTIL NO COLOR	Powering OFF
	SOLID RED	Alert
	BLINKING RED	Low Battery
	SOLID PURPLE	Battery Charging
	BLINKING PURPLE	Not activated, please contact customer service for unit servicing

7 OPTIONAL FEATURE

NOTE: This feature is enabled/disabled by the application provider and may not be supported by the device you have purchased.

7.1 GEO FENCE (OPTIONAL)

Set GEO Fence On:

1. Press and hold the SET button for approx 3 seconds.
2. The GEO Fence LED will blink continuously while it sets the origin.
3. If the origin is set, the LED will stay ON, if it fails, the led will turn OFF.

Set Geo Fence Off:

1. Press and hold the SET button for approx 3 seconds.
2. The GEO Fence LED will stay turned OFF when the GEO Fence is off.

NOTE: The Radius and Interval will be set to the current setting. If no Radius or Interval has been set, this will be set to the default values. Radius = 100M, Interval = 5 Minutes. The Origin will be set to the current location of the device. Please note the Origin can take up to 10 minutes to set depending in the environment the device is currently in.

8 PERSONAL GPS LOCATOR SPECIFICATIONS

8.1 FORM FACTOR

- Dimensions 56mm in diameter, 18mm in thickness
- Weight 40.7g or 1.44oz

8.2 HARDWARE SPECIFICATIONS

- Full TIA/EIA/IS-98D Compliance Assisted & Standalone GPS
- Operating Voltage Battery 3.4 ~ 4.3V, 500mAh Li-polymer
- Max Output Power 0.3W
- Battery Life Time 3 to 7 days (depending on frequency of locating the device)
- Current Consumption Idle mode (100mA)
- Sleep mode (1mA)
- Sensitivity Less than -104dBm
- Receive Frequency 869.04 ~ 893.97MHz for BC0, 1931.25 ~ 1988.75MHz for BC1.
- Transmit Frequency 824.04 ~ 848.97MHz for BC0, 1851.25 ~ 1908.75MHz

8.3 SOFTWARE SPECIFICATIONS

- CDMA2000: CDMA2000 protocol between IS-707-A.5: Packet Data Service for Mobile and Base Station
- IS-95A/B: CDMA protocol between TIA/EIA-637: Short Message Service for Mobile and Base Station
- IS-801 & TIA-801-A: Position determination Built-in TCP/IP service standard for Dual-Mode spread spectrum systems

8.4 MECHANICAL

- Dimensions 56mm in diameter, 18mm in thickness
- Weight 40.7g or 1.44oz

8.5 EXTERNAL INTERFACE

- USB
- Power/Service LED
- Configurable Soft Button
- External Reset
- Power On/Off Button

8.6 ENVIRONMENTAL

- Operating Temperature -4 ~ 140F (-20 ~ +60C)
- Storage Temperature -22 ~ 140F (-30 ~ +60C)
- Humidity (Operating) 0% ~ 95% non-condensing, 95F (35C)

9 LIMITATIONS OF LIABILITY

AnyDATA expressly assumes no responsibility for any error, omission, interruption, deletion, defect, delay in operation or transmission, communications failure, theft or destruction or unauthorized access to, or alteration of, any use of the AnyDATA Locating Service through the Internet or other communication services.

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