

WCDMA VEHICLE TRACKER

Users Manual

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ACT611, V0.3

**AnyDATA**

AnyTime AnyPlace Any Wireless Data Solutions™

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Contents

Contents	3
Figures	3
Tables	3
1 Introduction	6
1.1 Purpose	6
1.2 Technical Detail	6
1.3 Revision History	6
2 Physical Contents	7
3 Description: Vehicle GPS Locator (ACT611)	8
3.1 The Latest Vehicle Tracker in GPS Technology	8
3.2 Alerts & Messages	8
3.3 Tracking Reports	8
4 handing the Vehicle GPS Locator	10
4.1 Set-up	10
4.2 Power supply from vehicle (typical 13.5V)	10
5 Powering On/Off the Vehicle GPS Locator	11
5.1 Powering On/OFF	11
6 Vehicle GPS Locator Specifications	12
6.1 Form Factor	12
6.2 Hardware Specifications	12
6.3 Software Specifications	12
6.4 External INTERFACE	12
6.5 Environmental	12
7 Limitations of Liability	13

Figures

Figure 2.1: Package Contents	7
Figure 3.1: External Interface	9
Figure 4.1: Installation of ACT611 in vehicle	10

Tables

Table 1.1: Revision History	6
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**RF Exposure Warning:**

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 20 Cm.

Information to user (FCC Part 15.21):

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

Statement according to FCC part15.19

This device complies with part 15 of the 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.

Information to user

The radiated output power of this device is below the IC 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 IC radio frequency exposure limit, human proximity to the antenna should not be less than 20 Cm.

	<p>La puissance de sortie rayonnée de cet appareil est inférieure aux limites d'exposition de radio de fréquence IC. Néanmoins, le dispositif doit être utilisé de telle manière que le potentiel de contact humain pendant l'utilisation normale soit minimisé. Afin d'éviter la possibilité de dépasser la limite d'exposition de fréquence radio de la IC, la proximité humaine à l'antenne ne doit pas être inférieure à 20 cm.</p>
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1 INTRODUCTION

1.1 PURPOSE

This manual discusses the purpose and usage of the Vehicle GPS Locator (ACT611).

1.2 TECHNICAL DETAIL

Please refer to [Technical Manual.pdf](#) for a more detailed description of the ACT611.

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	JAN 2014	Initial Release - ACT611
V 0.2	APR 2014	Added French statements

2 PHYSICAL CONTENTS



Figure 2.1: Package Contents

The box should contain:

- **One ACT611 Vehicle GPS Tracker**
- **One User Guide**

3 DESCRIPTION: VEHICLE GPS LOCATOR (ACT611)

3.1 THE LATEST VEHICLE TRACKER IN GPS TECHNOLOGY

Utilizing both assisted and standalone GPS, ACT611 is able to determine your location via a combination of cell triangulation and the greatest number of GPS satellites available.

Alerts & Messages

ACT611 has no button for user-set alert functions; the LBS (Location based server) can only know the device location and alerts including the vehicle information.

3.2 TRACKING REPORTS

The ACT611 can be configured to report its location on a sw scenario based chronological interval. The interval is remotely configurable and can be set via appropriate web and mobile software platforms. In addition to interval tracking, the ACT611 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

4 HANDING THE VEHICLE GPS LOCATOR

4.1 SET-UP

1. Most of vehicle has an OBD-II (On Board Diagnostics) connector, which is located within 2 feet of the steering wheel.
2. The installation is very easy, just put the ACT611 to the OBD-II connector in user vehicle.
3. The ACT611 will power on automatically from vehicle battery and start initiation for WCDMA network access.
4. After install of device to vehicle, all services are served by server.



Figure 4.1: Installation of ACT611 in vehicle

4.2 POWER SUPPLY FROM VEHICLE (TYPICAL 13.5V)

1. After insertion of ACT611 to OBD-II connector, the device has automatically power-on with the car battery, typically 9~18V.
2. If the engine has off, then the device decide to power off the OBD interface circuit, and run the WCDMA RF with GPS for the unauthorized movement function.
3. If the engine has on, then the device work on the OBD interface circuit, which is charge of gathering the vehicle information such as fuel gauge, speed, engine RMP, and so on to report it to LBS server via the WCDMA network.

5 POWERING ON/OFF THE VEHICLE GPS LOCATOR

5.1 POWERING ON/OFF

To Power ON:

1. Insert the device to OBD-II connector.
2. Then, the device has automatically powered on according to vehicle condition.
3. There is no visual way to confirm whether device has power-on or not.
4. But, user can make sure the location from web-server, or application.

To Power OFF:

1. If the device is needed for totally power-off, then just remove it from the OBD-II connector.
2. In case of the car has engine off with ACT611, and passed several days, the device has automatically power-off to protect the battery drain fully.
3. The device will stay power-off until the car ignition-on again.
4. If the device detects the battery level over 13.5V, then start the powering on.

6 VEHICLE GPS LOCATOR SPECIFICATIONS

6.1 FORM FACTOR

- Dimensions : 80 x 45 mm, 22mm in Height
- Weight 66.5g

6.2 HARDWARE SPECIFICATIONS

- Assisted & Standalone GPS
- Operating Voltage 9 ~ 18V, (internally 3.5V for WCDMA RF)
- Max Output Power 0.3W
- Current Consumption Idle mode (50mA @ 12V)
- Light Sleep Mode (20mA @ 12V)
- Deep Sleep Mode (4mA @ 12V)
- Sensitivity Less than -104dBm
- Receive Frequency 1930 ~ 1990MHz for B2, 869 ~ 894MHz for B5.
- Transmit Frequency 1850 ~ 1910MHz for B2, 824 ~ 849MHz for B5

6.3 SPECIFICATIONS

- 3GPP R5: WCDMA protocol
- IS-801 & TIA-801-A: Position determination Built-in TCP/IP service standard for Dual-Mode spread spectrum systems

6.4 EXTERNAL INTERFACE

- OBD-II
- Micro USB (Type B)

6.5 ENVIRONMENTAL

- Operating Temperature : -30 ~ +70C
- Storage Temperature : -40 ~ +85C
- Humidity (Operating) 5% ~ 95% non-condensing, (50C)

7 LIMITATIONS OF LIABILITY

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