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N-Card

This manual introduces the N-Card device and all the necessary components for its use.

General information

The N-Card location device allows you to know its position in any moment from your PC and mobile terminal (mobile phones, PDA...) with Internet access.

N-Card is equipped with the latest technologies based on location by satellite (A-GPS) and mobile communications GSM/GPRS. These technologies allow high precision for every GPS location requested to the service of Navento.

N-Card memorizes trust geographical areas, e.g. your home, workplace, etc. In case N-Card leaves any of those active trust areas, you will receive a notification via SMS in your mobile phone. You will also receive alerts for robbery, low battery and when your N-Card begins to move. Moreover, you can also download to your mobile phone the map with the information of the position of the N-Card location device or contact the Customer Service Centre.

☑ When the N-Card device is beyond GPRS or GPS coverage, the position to be recovered will be the last one that has been received.

Components

1. N-Card device
2. Security USB key
3. Mini USB-USB power supply cable
4. Adapter for the car USB power supply cable
5. Adapter for the plug USB power supply cable
6. User manual and warranty

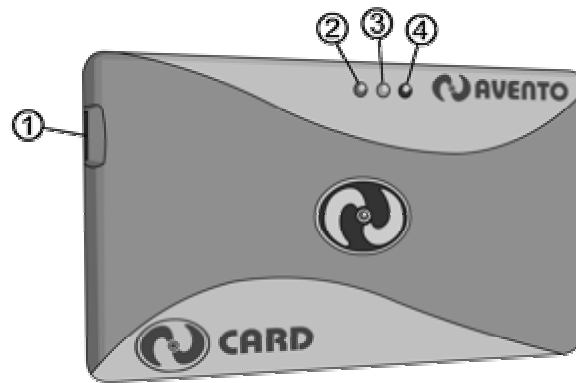


☑ In case that any of the aforementioned components is missing, please contact your distributor.

User interfaces

N-Card has the following user interfaces:

1. **Mini USB** for **supply** and **on/off**:
 - If you wish to recharge the battery of your N-Card when you observe that it has run out, connect the device by means of the USB cable to a power supply unit.
 - If you wish to turn on/off your N-Card, you will need to introduce and take out the security key of the mini USB. In case it is turned on, it will turn off and vice versa. While the key is introduced in the device, it will remain off.
2. **A flashing red light** indicates that the battery is low. If the light is **fixed** it means that the device is charging.
3. **A fixed green light** indicates that the battery has finished charging. If the light **flashes** it shows that the N-Card is on.
4. **A flashing orange light** indicates that the N-Card is within the GPRS coverage.
5. **A flashing blue light** indicates that the N-Card is within the GPS coverage.



Features

The basic characteristics of the N-Card are:

- Sensors for the GPRS and GPS coverage status (3 and 4).
- Sensor for the battery status (2):
 - Sensor that detects and alerts when the battery is low.
 - Sensor for the start and end of charging.
- Rechargeable battery
- When the GPRS coverage fails in the tracking mode, the N-Card stores the positions up to 4 hours.
- Turning on/off the device by means of the electronic key (1).

Technical information

Ambient Features	
Operating Temperature:	from -10 °C to +55 °C
Humidity:	>90 % without condensation
Overcurrent and overvoltage protection	
Electrostatic discharge, short-circuit and overtemperature protection.	
Physical Features	
Size:	85 x 55 x 12 mm
Weight:	75 gr
Communications	
Internal SIM Card:	1.8 V/3 V
GSM/GPRS Band:	850/900/1800/1900 MHz
A-GPS:	Assisted GPS
Device Supply	
External battery charger:	Input: 230 Vac + 10 % - 15 %, 50 Hz
	Output: 5 Vdc, 500 mA

Use optimization and autonomy

In order to optimize the performance of your N-Card there are a series of mechanisms to save energy that will allow you to enjoy the service of Navento during more hours:

- When you do not plan to use your N-card for a while, place it on a surface on which no movements or vibrations will be produced. A few minutes later, the indicator lights (*see paragraph "User interfaces"*) will turn off, which means that the **low power** mode is enabled. When you move your N-card it will be activated again and the corresponding indicator lights are turned on.
- When you are not interested in the minute-by-minute tracking of the **Tracking mode** modify the setup of your N-Card to **Request mode** (*see "User manual of the service of Navento – Internet" in www.navento.com*). This way you can request the position of your N-Card whenever you wish but it will only consume energy in that moment and not every minute.
- When you are not interested in a very precise location you may select a higher level of autonomy of your N-Card. There are four levels ranging from higher accuracy to higher autonomy; the higher the accuracy required the less autonomy you will have and vice versa.

Moreover, between each battery charge, your N-Card device will have plenty operating autonomy ranging from 16 hours working at full performance up to 4 days.

Use conditions and safety

Consider the following instructions for the correct operation and security use of your N-Card.



Take the safety USB key (on/off) with you when travelling by plane, since you will need to turn your N-Card off.



Use only the supply cables contained in the N-Card box.



Take care of the product and keep it in a clean and dust-free environment.



Charge the battery of your N-Card only at the currents indicated on the product.



Do not attempt to modify or dismantle the N-Card.



Do not expose your N-Card to humidity or liquids.



Do not touch your N-Card or the plug with wet hands.



Do not expose the N-Card to extreme temperatures. For instance, do not keep it close to a heater or microwave.



Do not hit or drop your N-Card.



Do not place your N-Card at a distance of less than 15 cm to electronic devices with which it may interfere, e.g. a pacemaker or other medical devices.



Do not place your N-Card in a place that may be dangerous in case of accident, e.g. next to a car airbag.



Do not throw your N-Card to a domestic garbage container since it must be recycled according to the Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment (WEEE). N-Card is RoHS compliant (environmental regulation).



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.

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

Navento Customer Service Centre: 902 20 60 40

Declaration of conformity



DECLARATION OF CONFORMITY

The undersigned, Enrique García García, with Spanish Identity Card Number 9751914-Y and acting as Planning and Manufacturing Director and as legal representative of the enterprise:

Name or Legal Entity Name:	NAVENTO TECHNOLOGIES, S.L.
Tax Identification Number:	B- 84670857
Address:	C/ Torrelaguna, 79 28043 Madrid-Spain
Telephone Number:	+34 91 337 06 09
Fax:	+34 91 337 18 99
E-mail:	info@navento.com

We declare, under our sole responsibility, the conformity of the product:

Description:	AGPS LOCATION DEVICE
Manufacturer:	NAVENTO TECHNOLOGIES, S.L.
Manufacturing country:	SPAIN
Brand:	NAVENTO
Model:	NCARD

To which this declaration is referred, with the standards and other regulatory documents:

- EN 301 511 V9.02 (03-2003); Harmonised standard for mobile stations in the GSM 900 and DCS 1800 bands covering essential requirements under Article 3(2) of the R&TTE Directive 1999/5/EC.
- EN 301 489-1 V1.6.1 (2005); Electromagnetic Compatibility (EMC) standard for all radio equipment and services. Part 1: Common technical requirements.
- EN 301 489-7 V1.2.1 (2002); Electromagnetic Compatibility (EMC) standard for all radio equipment and services. Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS).
- EN 60950-1 (2001); Electric safety for information technology equipment. Part 1: General requirements.
- EN 60215 (1989) + A1 (1992) + A2 (1994); Electric safety for radio transmitting equipment.

according to the provisions of the Directive 99/05/EC of the European Parliament and of the Council of 9 March 1999, transposed to the Spanish legislation by means of the Royal Decree 1980/2000 on 20 November 2000.

Madrid, on 20 January 2008

Enrique García García
NAVENTO TECHNOLOGIES, SL

