Safety manual:

Option GT020x Data Cards

About this document

Overview and Purpose

This document describes the safety measurements that have to be taken into account when using an Option Globetrotter data card.

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Version History

Date	Release	Version	Author(s)	Revision(s)	Remarks	Phase
15/09/05	1.0 – Draft	1	RoelT		Initial version	1.0.0
6/10/06	1.1		JoeriB		Final version	
15/02/07	1.2		ThomasG		Added external antenna distance	

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1. Introduction

When using the Option GE020x, it is necessary to pay attention to all safety aspects described in this document. Using these guidelines is mandatory to provide certainty of the safe use of the card for the end-user. Breaking these rules may be dangerous or illegal.

2. Safety Measurements

Following items contain simple recommendations relevant to the use of the Option datacard, please read them carefully. Not following these guidelines can cause harm to the card, yourself or other persons in your immediate environment.

General recommendations for use

- Always treat your product with care and keep in a clean and dust-free place. Do not expose your product to open flames or lit tobacco products.
- Do not expose to liquid, moisture or humidity. Do not expose the datacard to rain, or other liquids. Do not drop, throw or try to bend your product.
- Do not paint your product.
- Do not attempt to disassemble your product. Doing so will void the warranty. Only authorized personnel should do so.
- Do not touch the antenna unnecessarily.

Ambient temperatures

Do not expose the datacard or the antenna to ambient temperatures i.e. outside of minimum -25 and maximum +35 degrees Celsius.

Explosive atmosphere

Turn off your PC in any area with a potentially explosive atmosphere. It is rare, but your PC could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often but not always, clearly marked. They include fuelling areas (petrol filling stations), below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders. Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle which contains your PC and accessories.

Blasting areas – construction sites

Turn off your PC when in a blasting area in order to avoid interfering with two-way radios used in blasting operations.

Do not use on aircraft

Using a wireless devices on aircraft can cause interference and is illegal. If you intend to use your laptop/PDA whilst on an aircraft, you MUST remove your the datacard before boarding any aircraft. Do not use it on the ground without permission from the aircraft crew.

Do not use in hospitals

Follow any regulations or rules. In most cases in hospitals, datacards do not pose any problems. However, using a datacard close to sensitive electronic devices could possibly result in interference. If you intend to use your laptop/PDA in such areas, you SHOULD remove the datacard. People are usually asked to switch off all electronic devices in some selected areas in hospitals, a recommendation that Option fully supports.

Interference from radio signals

Option relies on health authorities and relevant expert bodies for advice on any potential undesired responses to radio frequency fields from datacard technology such as interference to electronic or electrical equipment and transmission in hazardous environments.

Immunity to interference

In electromagnetic terms, interference is the disturbance of the normal operation of an electronic or electrical device due to an undesired response to radio signals from an external source. In relation to the datacard, it is for example possible to detect a short audible signal over radios or multimedia personal computers just seconds before the phone rings. These audible signals do not, however interfere with the operation of the radio, computer or phone. 1989 Directive from the European Commission (89/336/ECC)13 governing all forms of electronic equipment concerns interference that such equipment produces and its immunity to interference from outside. Any equipment compliant with that directive is unlikely to suffer interference. All wireless devices may get interference which could affect performance.

Cardiac pacemakers, implanted defibrillators & other medical implant devices

It is possible that some datacards may interfere with some types of pacemakers or implanted defibrillators when operated close to the implanted device. You should seek advice from your doctor for advice for your specific implant. Health authorities in many countries have set up advisory services for medical devices and implants including providing advice about maintaining separation distances between datacards or other radio frequency terminal equipment and the embedded device. Option operating companies reflect the advice given by their relevant health authority or national advisory service and/or as a minimum indicate a separation distance of at least 15cm between datacards or other radio frequency terminal equipment and the embedded device.

Hearing devices

People with hearing aids or other cochlear implants may experience interfering noises when using mobile devices or when one is nearby. The level of interference will depend on the type of datacard, the type of hearing device and the distance between the two. Interference may be reduced by keeping a distance between the mobile device and hearing device.

Children

Do NOT allow children to play with datacard. They could hurt themselves or others, or could accidentally damage the datacard. Your datacard also contains small parts with sharp edges that may cause an injury or which could become detached and create a choking hazard.

Driving

Do NOT use data card while driving; park the vehicle first.

SIM cards

Inserting and removing the SIM card - precautions against electrostatic discharge (ESD). Do NOT touch the SIM card connectors. As a precaution, always make sure that datacard is already in your hand before you insert or remove the SIM card.

Accessories

Use only approved accessories. Do NOT connect with incompatible products.

Traveling

Handle the card with care while traveling. It is recommended to remove the card from the laptop.

Safe distance

Concerning specific safety guidelines we advise the end-user to keep a certain minimum distance between him and the device. The card is thoroughly tested against FCC SAR requirements which measure the absorption of radiation of the data card in the human body of the user. We comply to these SAR requirements, but we advice the user to keep a minimum distance of 20 cm. When using an external antenna, it is advised to use the same safety distance of 20 cm from that antenna.

Supply voltage

The PCMCI express card has to be supplied by a limited power source according to EN

60950-1:2001.