

# **BlackBerry Wireless Handheld**

**Safety Information Booklet**

BlackBerry Wireless Handheld  
Safety Information Booklet for the BlackBerry 7230 and 7280 Wireless Handhelds  
900/1800/1900 MHz GSM GPRS Networks (7230)  
850/1800/1900 MHz GSM GPRS Networks (7280)  
Model number: R6230GE (7230), R6230GN(7280)

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## Important safety information for BlackBerry Wireless Handheld users

Please read these safety and operation instructions before operating the BlackBerry Wireless Handheld™, or any handheld charging units. Retain these instructions for future use.



**Note:** Refer to "Important safety/compliance information for North American users" on page 6 for more information on safety regulations and compliance information for using your BlackBerry Wireless Handheld in North America.

Refer to "Important safety/compliance information for European and Asia Pacific users" on page 8 for more information on safety regulations and compliance information for using your BlackBerry Wireless Handheld in Europe.

### ELECTRICAL SAFETY

This handheld (model number R6230GE, R6230GN) is intended for use when supplied with power or charging from the USB cable HDW-04162-001, Travel Charger accessory ASY-04078-001 (ACC-04074-001), Automotive Charger accessory ASY-04195-001 (ACC-04173-001), or any other charging units provided or specifically approved by Research In Motion Limited (RIM) for use with this equipment. Other usage will invalidate any warranty provided with this apparatus and may be dangerous.



**Warning:** Before use, please ensure that the mains voltage is in accordance with the input voltage printed on the power supply.

To be operated on mains with a circuit breaker rated 16A max.

Protect against beating rain. For indoor use only.

### ACCESSORIES

Use only those accessories approved by RIM. The use of any accessories not approved by RIM for use in conjunction with the handheld will invalidate any approval or warranty applicable to the handheld and may be dangerous.

### DRIVING

Check the laws and regulations on the use of wireless devices in the areas where you drive. Always obey them. The use of any alert device to operate a vehicle's lights or horn on public roads is not permitted.

Avoid using the handheld in any environment requiring your full attention, such as when driving a vehicle. If you need to use your handheld while driving, have a passenger in the vehicle use the handheld for you, or find a safe location to halt your vehicle prior to using the handheld. Do not use any charging unit as a means of storing your handheld while in a vehicle.

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

#### For Vehicles Equipped With An Air Bag

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, such as the BlackBerry Wireless Handheld, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

### ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless handheld.

## Important safety information

### Pacemakers

Consult a physician or the manufacturer of your pacemaker if you have any questions regarding the effect of RF signals on your pacemaker. If you have a pacemaker, ensure that you are using the handheld in accordance with the safety requirements associated with your particular pacemaker, which may include the following:

- Always keep the handheld more than 20 cm (7 inches) from the pacemaker when the handheld is turned ON;
- Do not carry the handheld in a breast pocket;
- If the handheld has a voice option, use the ear opposite the pacemaker for making and receiving calls to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your handheld radio OFF immediately.

### Hearing Aids

Some digital wireless devices may interfere with some hearing aids. In the event of such interference, consult your service provider or contact the manufacturer of your hearing aid to discuss alternatives.

### Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your handheld radio OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### Posted Facilities

Turn your handheld radio OFF in any facility where posted notices so require.

## BLASTING AREAS

To avoid interfering with blasting operations, turn the wireless feature of your handheld radio OFF when in a “blasting area” or in areas posted: “Turn off two-way radio”. Obey all signs and instructions.

## POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your handheld radio OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. 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 fueling areas such as gasoline/petrol stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

## ADDITIONAL SAFETY GUIDELINES

**Battery:** Discard the handheld properly. As the unit contains a lithium-ion battery, neither the handheld nor the lithium battery should be disposed of in fire. Dispose of the lithium battery in accordance with the laws and regulations in your area governing disposal of such cell types. To recharge the battery, use approved battery chargers only. Keep the battery away from children.



**Warning:** The battery may present a fire or chemical burn hazard if mistreated. Do not disassemble, crush, puncture, or heat the battery above 60 degrees Celsius. Do not allow metal objects to contact the battery terminals. Use only the battery that Research In Motion specifies for use with your BlackBerry Wireless Handheld. The use of another battery may present a risk of fire or explosion.

**Power source:** The charging unit and any other charging units should be operated only from the type of power source indicated on the marking label and are intended for indoor use only. Do not use the travel charger or any other charging units outside or in any area exposed to the elements. Refer to the operating instructions in this manual for more information on the battery and power supply.

Do not overload wall outlets, extension cords, or integral convenience receptacles as this may result in a risk of fire or electric shock. To reduce the risk of damage to the cord or the plug, pull the plug rather than the cord when you disconnect the apparatus from the wall outlet or convenience receptacle.

**Liquids and foreign objects:** Never push objects of any kind into the handheld or any accessories through openings as they may short-out parts and this may result in a fire or electric shock. Do not use the handheld or any accessories near water (for example near a bathtub, or a sink, in a wet basement, near a swimming pool, etc.). Never spill liquid of any kind on the handheld or any accessories. Disconnect the USB cable from the computer and unplug the travel charger from the electrical outlet before cleaning either the handheld or the travel charger.

**Stability:** Do not place the handheld, charging unit, or any accessories on any unstable surface, such as a cart, stand, tripod, bracket, or table. It may fall, thereby potentially causing serious injury to a child or adult, and/or serious damage to the handheld, charging unit, or any accessories. Take care when using the handheld with any charging units to place the charging unit in a secure and stable spot and route the power cord in a way that reduces the risk of injury to others, such as by tripping or choking.

**Care:** Do not use liquid or aerosol cleaners or solvents on or near your handheld. Clean only with a dry cloth.

**High heat:** The handheld and any accessories should be situated away from any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

**Power Cord:** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Unplug this apparatus during lightning storms or when unused for long periods of time.

**Service:** Disconnect the USB cable from the computer and unplug the travel charger from the electrical outlet and refer the handheld, charging unit, and any accessories for service to qualified service personnel if:

- the power supply cord, plug, or connector to the handheld is damaged
- liquid has been spilled or objects have fallen into the handheld, charging unit, or any electrical accessories
- the handheld, charging unit, or accessory has been exposed to rain or water
- the handheld, charging unit, or accessory becomes very hot to the touch
- the handheld, charging unit, or accessory has been dropped or damaged in any way
- the handheld, charging unit, or accessory does not operate normally by following the instructions contained in this guide
- the handheld, charging unit, or accessory exhibits a distinct change in performance.

All servicing should be undertaken by qualified service personnel.

## Important safety information

Do not attempt to disassemble the handheld, charging unit, or any accessories.



**Warning:** To reduce the risk of fire or electric shock, do not expose the handheld or any accessories to rain or moisture. Adjust only those controls that are covered in this manual. An improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the handheld, charging unit, or accessory to its normal operation.

Failure to observe all safety instructions contained in this guide will void the Limited Warranty, and may lead to suspension or denial of services to the offender, or legal action, or both.

## Important safety/compliance information for North American users

### EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable device is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. Your wireless handheld complies with U.S. Federal Communications Commission (FCC) and Industry Canada (IC) guidelines respecting safety levels of RF exposure for handheld wireless devices, which in turn are consistent with the following safety standards previously set by Canadian, U.S., and international standards bodies:

- ANSI/IEEE C95.1-1999, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300 GHz
- National Council on Radiation Protection and Measurements (NCRP) Report 86, -1986, Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields
- Health Canada, Safety Code 6, 1999, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
- International Commission on Non-Ionising Radiation Protection (ICNIRP) 1998, Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)

To maintain compliance with FCC and IC RF exposure guidelines, use only RIM-supplied or approved accessories. The BlackBerry Wireless Handheld is designed to be carried in a RIM-approved holster when carried on your body. When carrying the handheld while it is switched on, use the specific RIM-approved holster that has been tested for compliance. Use of accessories that are not approved by RIM may violate FCC and IC RF exposure guidelines and may void your warranty.

### SPECIFIC ABSORPTION RATE DATA

#### THIS MODEL WIRELESS HANDHELD MEETS GOVERNMENT REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless handheld is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government and Industry Canada of the Canadian Government (IC). These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile handhelds employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC/IC is 1.6W/kg.\* Tests for SAR are conducted using standard operating positions specified by the FCC/IC with the handheld transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the handheld while operating can be well below

the maximum value. This is because the handheld is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a wireless handheld model is available for sale to the public, it must be tested and certified to the FCC/IC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC/IC for each model. The highest SAR value for this model handheld when tested for use at the ear is 0.26 W/kg (7230), 0.23 W/kg (7280) and when worn on the body, as described in this user guide, is 0.07 W/kg (7230), 0.12 W/kg (7280). (Body-worn measurements differ among wireless handheld and phone models, depending upon available accessories and FCC/IC requirements). While there may be differences between the SAR levels of various wireless devices and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model handheld with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handheld is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID L6AR6230GE (7230), L6AR6230GN (7280).

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at <http://www.wow-com.com>.

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\* In the United States and Canada, the SAR limit for mobile handhelds used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue for the body or head (4.0 W/kg averaged over 10 grams of tissue for the extremities - hands, wrists, ankles and feet). The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

The long-term characteristics or the possible physiological effects of Radio Frequency Electromagnetic fields have not been evaluated by Underwriters Laboratories Inc. (UL).

## ANTENNA CARE

Use only the supplied integral antenna. Unauthorized antenna, modifications, or attachments could damage the handheld and may violate FCC regulations.

## AIRCRAFT SAFETY

Federal Aviation Administration (FAA)/FCC regulations prohibit using the radio of your handheld while in the air. Switch your handheld radio OFF before boarding an aircraft. The effect of the use of your handheld's radio in an aircraft is unknown. Such use may affect aircraft instrumentation, communication and performance, may disrupt the network, may otherwise be dangerous to the operation of the aircraft, and may be illegal. All other applications of your handheld may be used in accordance with airline regulations for electronic devices.

## FCC compliance statement (USA)

### *FCC Class B Part 15*

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.



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

## Important safety information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications.

There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Industry Canada Certification

This device complies with Industry Canada RSS 133, under certification number 2503A-R6230GE (7230), 2503A-R6230GN (7280).

## Class B compliance

This device complies with the Class B limits for radio noise emissions as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

## Important safety/compliance information for European and Asia Pacific users

### EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable device is a low power radio transmitter and receiver. When it is ON, it receives and also transmits radio frequency (RF) signals. Your wireless handheld complies with European Union (EU) guidelines respecting safety levels of RF exposure for handheld wireless devices, which in turn are consistent with the following safety standards and guidelines previously set by international standards bodies:

- EN 50360, 2001, Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)
- International Commission on Non-Ionising Radiation Protection (ICNIRP) 1998, Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)
- Official Journal of the European Union, 1999, Council Recommendation of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

To maintain compliance with EU RF exposure guidelines, use only RIM-supplied or approved accessories. The BlackBerry Wireless Handheld is designed to be carried in a RIM-approved holster when carried on your body. When carrying the handheld while it is switched on, use the specific RIM-approved holster that has been tested for compliance. Use of accessories that are not approved by RIM may violate EU RF exposure guidelines and may void your warranty.



## **SPECIFIC ABSORPTION RATE DATA**

### **THIS MODEL WIRELESS HANDHELD MEETS THE EU REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.**

Your wireless handheld is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy recommended by The Council of the European Union. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile handhelds employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit recommended by The Council of the European Union is 2.0 W/kg.\* Tests for SAR are conducted using standard operating positions with the handheld transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the handheld while operating can be well below the maximum value. This is because the handheld is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a wireless handheld model is available for sale to the public, it must be tested and shown to be within the SAR limits adopted by European countries, under the recommendations of the International Commission on Non-Ionising Radiation Protection (ICNIRP). The tests are performed in positions and locations (e.g., at the ear) as required by The Council of the European Union for each model. The highest SAR value for this handheld model when tested for use at the ear is 0.60 W/kg (7230), 0.17 W/kg (7280) and when worn on the body, as described in this user guide, is 0.39 W/kg (7230), 0.06 W/kg (7280). (Body-worn measurements differ among wireless handheld and phone models, depending upon available accessories). While there may be differences between the SAR levels of various wireless devices and at various positions, they all meet the government requirement for safe exposure.

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\* In Europe, the SAR limit for mobile handhelds used by the public is 2.0 Watts/kg (W/kg) averaged over 10 grams of tissue for the body or head (4.0 W/kg averaged over 10 grams of tissue for the extremities - hands, wrists, ankles and feet). The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

The long-term characteristics or the possible physiological effects of Radio Frequency Electromagnetic fields have not been evaluated by Underwriters Laboratories Inc. (UL).

## **ANTENNA CARE**

Use only the supplied integral antenna. Unauthorized antenna modifications or attachments could damage the handheld and may violate applicable laws and regulations by causing radio frequency (RF) energy to be above the recommended limits. Any such unauthorized use, modification or attachment will invalidate the warranty provided with the handheld and may be dangerous.

## **AIRCRAFT SAFETY**

Switch off your handheld's radio when in an aircraft. The effect of the use of your handheld's radio in an aircraft is unknown. Such use may affect aircraft instrumentation, communication and performance, may disrupt the network, may otherwise be dangerous to the operation of the aircraft, and may be illegal. All other applications of your handheld may be used in accordance with airline regulations for electronic devices.

## Important safety information

# EU REGULATORY CONFORMANCE

Research In Motion Limited hereby declares that this BlackBerry Wireless Handheld device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

**C €0168**

The Declaration of Conformity made under Directive 1999/5/EC is available for viewing at the following location in the EU community:

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