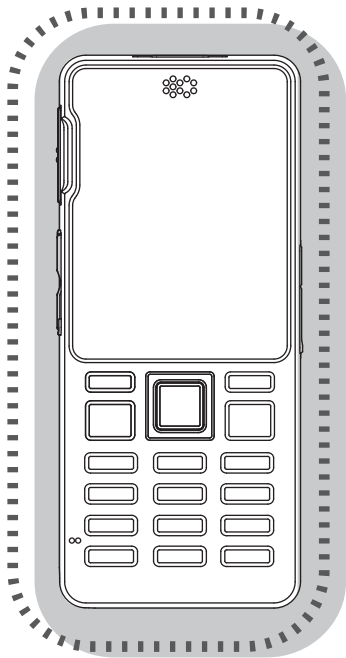




TiGR160



SIERRA
WIRELESS®

Thank you for purchasing a Sierra Wireless telephone. We suggest you read this document carefully to be able to use your telephone to the best of its capabilities. Your telephone can use different international networks (EDGE, R-GSM, GSM 900 MHz and DCS 1800 MHz), according to roaming agreements between operators.

We remind you that this telephone complies with European standards.

WARNING

Your telephone is identified by means of its IMEI number. Note this number carefully, but do not keep it in your telephone, as it may be required in the event of theft of your telephone, in order to block its use, even using another SIM card. To display the IMEI on your telephone screen, enter : *#06#.

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AT® is a registered trademark of Hayes Microcomputer Products Inc.

Hayes® is a registered trademark of Hayes Microcomputer Products Inc.

T9™ Text Input is a registered trademark of ©Tegic Communications Inc.

5,953,541, 5,187,480, 5,945,928, 6,011,554 and other patents are currently being filed worldwide.

Java™ and all Java™ based logos and registered trademarks are registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

The WAP browser and included software are the exclusive property of Openwave. As such, it is forbidden to edit, translate, disassemble them in full or in part.

SmartCom™ is a registered trademark belonging to SmartCom SARL.

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

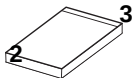
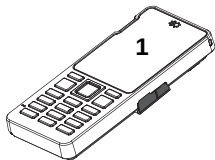
microSD™ is a registered trademark of SD Card Association.

The aim of this document is to provide the information you need to start your telephone. A full user manual is available on our website : www.sierrawireless.com, dont hesitate to consult it.

Your pack

Check that these elements are present in your pack :

1. the telephone,
2. the battery,
3. the mains charger,
4. the USB cord,
5. the USB cable,
6. the hands-free kit,
7. this document.



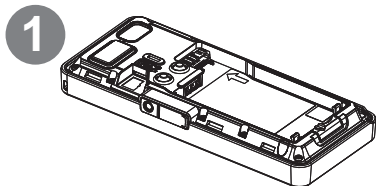
Getting started

Take the telephone and the battery and follow the instructions on the following pages.

Installing the SIM card(s) and the battery

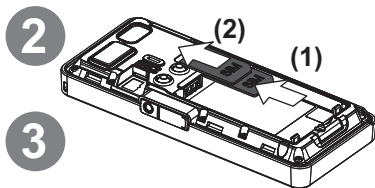
Your telephone is equipped with a dual SIM card support. If you are only using one SIM card, you can insert it either in the housing (1) or (2).

1. Turn your telephone over.

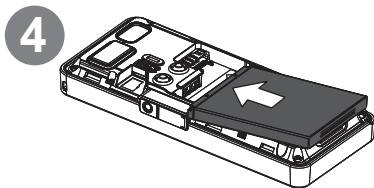


2. Slide the **first card** fully under the cover, the with gold contacts face down to the telephone and the diagonally cut corner turned as indicated in the drawing on the telephone.

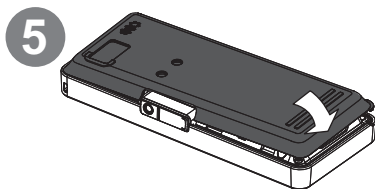
3. If necessary, slide the **second SIM** card under the housing of the first SIM card, as shown 2.



4. Insert the battery into its housing, first positioning the upper part with the connectors.



5. Replace the cover, clicking into place the upper part first.



Start your telephone.

6. Hold down [Red]  to switch on your telephone. The screen lights up with an animation.
7. Enter the 4 to 8 figure code(s) provided by your operator and confirm.



These figures are not displayed on the screen for security reasons.

8. Follow the instructions on the screen. The home screen appears.
9. When the network has been found, you can discover the functions of your telephone.

Network information

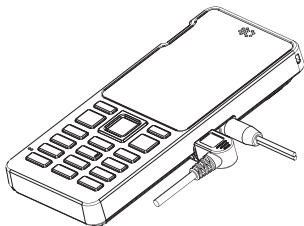
Immediately it is switched on, the telephone searches for a network to communicate with. When it finds the network, its name is displayed on the screen. You are ready to make or receive a call.



If the name of the network appears, calls are possible on your operator's network.

*If the letter **R** and a network name appear, calls are possible on the network of another operator. If the letter **E** is displayed with no network name, only **emergency calls** are possible (civil defence, police, fire brigade).*

Charging



Your telephone is powered by a rechargeable battery. A new battery must be charged for at least 4 hours before it can be used. It will reach its optimal capacity after several cycles of use.

1. Lift up the protective cover on the right side by pulling gently on the upper part.
2. Connect the end of the USB cord to the connector the right way up.
3. Connect the charger to the mains. The telephone starts to charge and the battery charge indicators lights up to confirm charging. Charging stops automatically.
4. When charging is complete, remove the charger from the mains, and the connector from your telephone. Replace the protective cover.



During charging, the battery may heat slightly ; this is normal. When you recharge the battery, the mains plug to which the charger is connected should be easily accessible.

Memory card

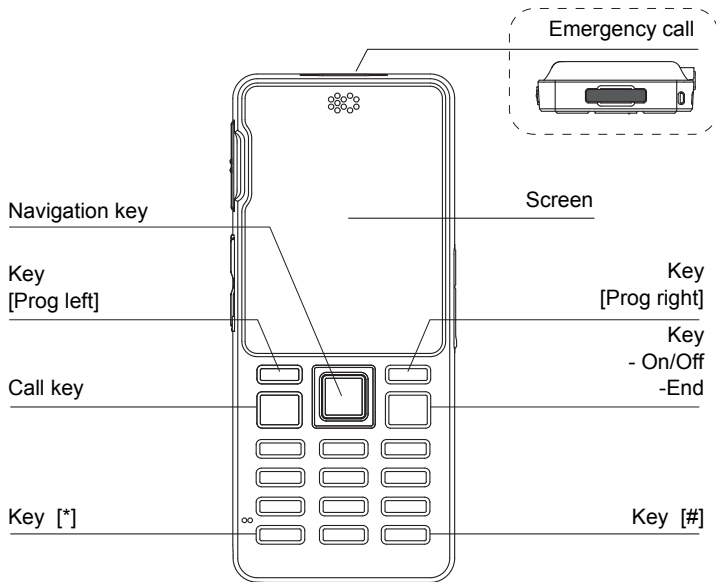
Your telephone can receive a memory card of maximum capacity 2 Gb. You will find information on how to install and use it in the user manual available on the www.sierrawireless.com website in the support section.

Discover...

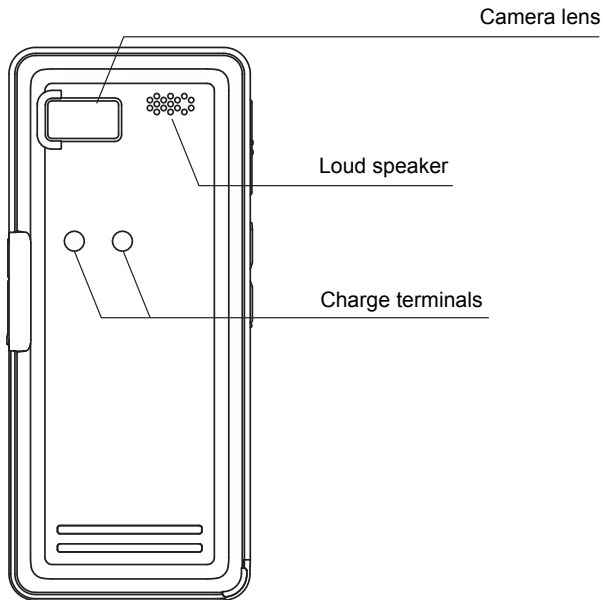
Get to know your telephone by reading the following paragraphs :

- the telephone, page 11,
- the screen, page 16,
- navigating through the menus, page 18,

The telephone - *Front view*



Rear view



Side views

Left view

PTT key
Push to talk

Volume setting key

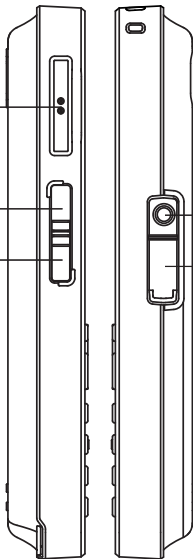
+

-

Right view

Jack connector
Ø 2.5 mm for
accessories

USB connector



The keys

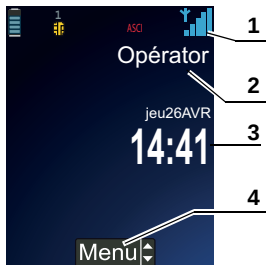
The functions are associated with the following keys :

Keys	Description
[On/Off]  / [End] 	• Hold down : switch the telephone On/Off. • During a call : refuse/end a call. • In the menus : return to the home screen.
[Call] 	• During a call : activate/deactivate hands-free mode.  In this mode, do not put the telephone to your ear. • During a call : call/answer a call. • From the home screen : access the call list.
[Prog right] 	• From the home screen : access certain functions (shortcuts). • In the menus : access the choice shown on the screen in the tab.
[Prog left] 	• From the home screen : access certain functions (shortcuts). • In the menus : access the choice shown on the screen in the tab.

Keys	Description
Navigation key	The navigation keys are used to : • move the cursor on the screen by pushing the knob in the corresponding direction, • confirm your selection by pressing the navigation key, • in the home screen, a short press on one of the four directions : to access certain functions (shortcuts).  <i>When these icons appear on the screen, the function refers to the navigation key.</i>
[*] 	Hold down or short press and confirm : activate/deactivate the keyboard lock. When composing a message : • Short press : switch from onetext entry mode to another (upper/lower case, ABC, 123). • Hold down : activate/deactivate T9 mode.
[#] 	• When setting the ring tone : activate/deactivate the ringtone. • When composing a message : - short press : access the list of special characters, - hold down : change the dictionary language.

The screen

Elements on the home screen



No.	Description
1	Reception bar
2	Name of network operator
3	Date and time, in digital mode
4	Tab

The icons

The following icons may appear on the home screen :

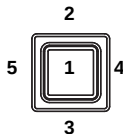
Icon	Description	Icon	Description
	Battery full/empty		WAP communication
	Call forwarding		GPRS

Icon	Description	Icon	Description
	Communication (call in progress)		EDGE
	Communication (hands-free)		SIM1 or SIM2 active
	Accessories connected (for example : hands-free kit)		Alarm activated
	Message (message received, message memory full)		Roaming
	DATA communication		Only emergency calls possible
	Silent mode		Secure WAP recording
	Voicemail message		Reception level (5 bars)
	ASCII functions available		Java Applet running

Navigating through the menus

The navigation key

The navigation key allows you to rapidly access menus and adjust settings :



Key ...	Used to, from...		
	the home screen	the main menu	during a call
Centre key 1	to go to the main menu	to confirm a selection	to activate the contextual menu
Top key ▲ 2	to scroll up the main menu	to go to the previous menu	to increase the volume
Bottom key ▼ 3	to scroll down the main menu	to go to the next menu	to lower the volume
Right key ► 4	to go to a menu shortcut. This shortcut is programmable	to go to the next sub-menu	-
Left key ◀ 5	to go to a menu shortcut. This shortcut is programmable	to go to the previous sub-menu	-

Programmable keys

Your telephone has two "programmable" keys which can be associated with a shortcut to a specific menu. This shortcut will appear on your home screen.

These keys can also be used to confirm or cancel an action in a menu :

Key ...	Used to, from...		
	the home screen	the main menu	during a call
Key [Prog left] 	to go directly to the list of shortcuts	• to confirm the current selection, • to display the options in the contextual menu during a call, • to display the options during a call,	-
Key [Prog right] 	to go directly to the list of shortcuts	to cancel the current selection or text entry in progress	-

The keypad

The keys numbered from 1 to 9 can be used to go to a sub-menu rapidly.

For example : in the menu **Group calls**, press **[2]** to go to sub-menu **Ongoing calls**.

Navigation

To navigate through the menus, use the navigation key and the two keys [Prog left]  and [Prog right] .

Communicate...

Call management

Making a call

Use...

Key [Green] 

1. Dial your correspondent's number.
2. Press [Green] .
3. During the call, the call in progress icon flashes on the screen and tones may signal that the communication is put through.
When the connection is made, the call icon stops flashing : you can adjust the sound volume using the browser or the side keys +/-.
4. At the end of the conversation, press [Red]  to end the call.

Call voicemail

Use...

Key [1]

From the home screen, press long on [1]. The call is automatically dialled.

Receiving a call

Press the following keys :

Key...	Is used...
[Green] 	answer
[Prog right]  or [Red] 	refuse the call
[#] 	stop the ringtone or vibration, without refusing the call

Using the directory

Call a contact

Several possibilities :

By using...	Proceed as follows :
The Directory menu	1. Select a contact. 2. Confirm with the browser, the number is displayed. 3. Press [Call] or [Green] .
	OR 1. Select a contact. 2. Select [Choose] > Call.
The home screen	1. Display the number of your correspondent, or : - by displaying the list of calls if it has already been dialled, - by entering it, 2. Press [Green] .

Group calls

Go to...

Menu > Group calls

This menu is used to dial a number and connect to a group call or a broadcast call. You can also access the most recently called numbers.

Make a broadcast or group call

Go to...

Menu > Group calls > Initiate

1. Sélectionnez **Broadcast**.

The telephone displays the broadcast call numbers (GID) that can be called from the home screen.

2. Select a **GID**, and press **[Call]**.

3. Then :

- **for a broadcast call** : the person who makes the call is the only person who can talk. This is shown by the icon . The other members of the group cannot talk, as shown by the icon .

- **for a group call** : before being able to speak, you must ask for authorization by pressing the PTT button. The telephone displays the icon  if you are authorized to talk. The network only gives this authorization to one person at a time.

If you are given authorization, your telephone displays the icon , indicating that you can talk.

If the authorization is not given, you become one of the group participants and your telephone displays the icon .

To make an emergency call

Use...

The key  from any menu

1. The telephone will ask for confirmation before making the emergency call.
2. Press the PTT key to confirm.
3. Once the call is made, it operates in the same way as a group call.

Joining a group or broadcast call

Go to...

Menu > Group calls > Ongoing calls

1. The telephone displays the list of group call and broadcast calls in progress in your region.
2. Select a call.

3. Press [Join].

To define the broadcast or group call number

Go to...

Menu > Group calls > Group status > Broadcast > Group

This menu allows you to choose the group or broadcast call number to activate to make or receive group or broadcast calls. This number must be saved on the SIM card.

1. Use the navigation key to activate or deactivate the required group or broadcast number.
2. Confirm.

To end a broadcast or group call

Use...

The [Red] key  or the [Prog right] key 

Press the [Red] key  or the [Prog right] key  to end a call.

- **for a broadcast call** : if you are the one making the call, it will be ended and all the participants are disconnected from the network.

If you are not the one making the call, only you will leave the call as long as the other participants remain.

- **for a group call** : if you are not the one making the call, only you leave the call ; the other participants continue in the call.

If you are the one making the call, the telephone displays two options: **[Close]** or **[Exit]**.

If you select **[Close]** : the call is ended for all participants and they are disconnected from the network.

If you select **[Exit]** : you alone leave the call ; the other participants continue the call.

You can however close the group if you join it after leaving it : to do so, take the alternative at least once, then select **[Close]** when the option is displayed.

To end an emergency call

Use...

The **[Red]** key  or **[Prog right]** key 

Press the **[Red]** key  or the **[Prog right]** key  to end an emergency call :

- **if you are not the one making the call** : you cannot leave it.
- **if you are the one making the call** : you may only close the call.

The call is then ended for all participants and they are disconnected from the network.

Annexes

Find information concerning the use of your mobile phone in the following paragraphs :

- Declaration of conformity, page 29,
- Technical specifications, page 30,
- Information and precautions of use, page 31.

Declaration of conformity

The CE label certifies that this product complies with the requirements of directive 1999/5/EC of the European Parliament and Council regarding radio equipment and telecommunications terminal equipment, in terms of the health and safety of users, and radio wave interference.

It also complies with the requirements of the EMC directive 2004/108/CE governing electromagnetic compatibility of equipment, the LVD directive 2006/95/CE regarding electrical equipment for use in certain voltage limits, and the ErP directive 2009/125/CE fixing community requirements in terms of ecodesign applicable to energy-related products.

Furthermore, this product uses the spectrum allocated to terrestrial or space radio communications to prevent any harmful interference.

The declaration of conformity can be obtained from the following address :

Sierra Wireless SA
5, boulevard Gallieni
92442 Issy-les-Moulineaux Cedex - FRANCE

Technical specifications

Characteristic	Value
Weight	120 g
Size	115 x 50 x 16 mm
Original battery	1100 mAh Li-ion
Battery life calls/standby	Up to 7.5 hr/450 hr (these values are theoretical and are provided for information only)
Multimedia objects supported	• Audio formats : wave • Graphic formats : wbmp, bmp, png, gif, gif animés, jpeg
Memory size available for SMS	Up to 200 SMS
Memory size available for the directory and multimedia objects	3 Mb

Characteristic	Value
Maximum size of each message	• SMS : < 160 characters • MMS : < 100 Kb for outgoing messages, 100 Kb for incoming messages (depends on the configuration of the telephone and operator restrictions)
Operating temperature	From - 20 °C to + 55 °C
Battery charge temperature	From - 0 °C to + 40 °C

Information and precautions of use

SAR

THIS MODEL OF TELEPHONE COMPLIES WITH INTERNATIONAL STANDARDS GOVERNING EXPOSURE TO RADIO WAVES

Your telephone is a transmitter/receiver. It has been designed to respect the internationally recommended exposure limits to radio waves. These limits were established by the independent scientific agency ICNIRP and include a safety margin designed to protect everyone, whatever their age or state of health.

The limits use a unit of measurement called Specific Energy Absorption Rate, or SAR. The SAR limit for mobile telephones is 2 W/kg, and the highest value measured for this model during ear tests was 0,7 W/kg ¹. As telephones offer a wide variety of functions, they may be used in positions other than those described in this user manual ².

The SAR is measured at maximum emission power. The actual SAR for this telephone during operation is usually lower. This is due to automatic changes in telephone power so that the minimum level necessary is used to communicate with the network.

Recommendations for limiting exposure to electromagnetic fields (RF radiofrequencies)

For people wishing to limit their exposure to electromagnetic fields (RF), the World Health Organization (WHO) gives the following advice :

Precautionary measures : current scientific information does not indicate the need to take specific precautions for using mobile telephones. If people are worried, they should choose to limit their exposure or that of their children, by limiting the length of calls or by using "hands-free" devices to distance the telephone from the head and body. For more information on this subject, visit the WHO website :<http://www.who.int/peh-emf> WHO fact sheet 193.

1. These tests were conducted in accordance with international standards.
2. See chapter Security for body usage.

Security

Never attempt to dismantle your telephone. You alone are responsible for the use of the telephone and the consequences of this use.

In general, switch off your telephone in places where its use is prohibited.

Use of your telephone is subject to rules designed to ensure your safety and that of those around you.

Protect it from splashes of water or other liquids.

Do not expose your telephone to extreme temperatures less than - 20 °C or greater than + 55 °C. The physical chemical processes at work in the batteries require temperature limits during rapid charges. Your telephone automatically protects the batteries in the event of extreme temperatures.

Do not leave your telephone within reach of young children (some moving parts may be accidentally swallowed).

Electrical safety

Only use the chargers specified by the manufacturer. The use of any other charger may be dangerous and could void your warranty. The mains voltage must correspond with that indicated on the charger ID plate. The charger must be placed close to the mobile telephone and remain easily accessible.

Battery

The batteries must not be exposed to excessive heat such as that of the sun, fire or similar.

It is recommended to replace the models provided only with strictly equivalent models.

If lithium batteries are used :



ATTENTION : Danger of explosion if the battery is not correctly replaced. Only replace with the same type of battery or an equivalent battery.

To recharge the batteries, see section Batteries.

Air safety

On board an airplane, you should switch off your telephone when asked to do so by cabin staff or announcements. Using your telephone may interfere with the piloting of the plane, and the telephone network.

It is illegal to use it and failure to respect these safety rules may lead to criminal proceedings or a ban on further access to cellular network services.

Explosive materials

Please switch off your telephone in service stations, as requested by the signs. You should also observe usage restrictions concerning radio equipment in chemical factories, fuel depots, and anywhere where operations requiring explosives are underway.

Electronic equipment

To prevent any risk of demagnetization, it is recommended not to leave electronic equipment near the telephone for any length of time.

Composition of electrical equipment

Depending on the model, your telephone may include the following components :

1. the battery charger,
2. the battery,
3. the USB cable,
4. the hands-free kit.



You should only use the mains charger provided. Connect it to the mains power as described in the instructions below. As a precaution, in the event of danger, mains chargers serve as power circuit breakers 110/220 V. They should be located close to the device and remain easily accessible.

Mains charger

Never connect your telephone to a loose, damaged or defective power outlet or you risk electric shock.

In the event of a suspicious noise coming from the outlet or the mains charger, immediately unplug the mains charger from the power outlet, taking all necessary precautions or you risk electric shock. Contact your dealer.

Ensure that the mains charger is kept out of reach of children or pets.

Medical electrical equipment

Your telephone is a radio transmitter which may interfere with medical electrical equipment and implants, such as hearing aids, pacemakers, insulin pumps, etc. It is generally recommended to wearers of implants to keep the telephone at a distance of at least 15 cm. If necessary, your doctor or the manufacturers of these devices can provide you with all necessary information.

Hospitals

Make sure you switch off your telephone in hospitals when asked to do so by nursing staff or signs.

Road safety

Do not use your telephone while driving. To devote all your attention to driving, stop and pull over carefully before making or taking a call. As applicable, respect the legislation in force.

Operating distance

This model has been tested and complies with requirements concerning exposure to radiofrequencies, when used as follows :

- at the ear : make or take a call and hold the telephone as if it were a traditional land telephone,

- worn on the body : during transmission, place the telephone in a metal-free carrying case and hold the telephone 2.5 cm from the body. The use of other accessories does not guarantee compliance with requirements concerning exposure to radiofrequencies. If you do not use a body accessory and do not hold the phone to your ear, place the telephone at a minimum distance of 2.5 cm from the body.
- use for data transfer : when you are using a data transfer function, place the telephone at a minimum distance of 2.5 cm from the body during the data transmission.

Accessories

It is recommended to use Sierra Wireless or Sagemcom branded accessories for optimal operation of your telephone and your accessories.

USB connection

Your telephone can be connected to a computer by means of the USB cable provided.

When connecting a USB peripheral, respect the direction of insertion and never force it. You risk damaging your peripheral and/or the telephone.

Use as an MP3 player



This product has been designed to comply with current legislation in terms of limiting maximum sound power.

- Prolonged use at full power through headphones or earphones may damage your hearing.
- If you experience any ringing in the ears, reduce the volume or stop using the product.
- Use only the headphones or earphones provided or compatible accessories.

Environment for Europe

Packaging

European regulations impose recycling of packaging waste. It should not be disposed of in unsorted refuse. Local schemes are available for sorting this waste and recycling it.



The presence of this logo means that the packaging is recyclable and should not be disposed of with unsorted refuse.



The presence of this logo on plastic components means that they are recyclable and should not be disposed of with unsorted refuse.

To facilitate recycling, respect the sorting rules for packaging waste.

Batteries

If your product contains batteries, they should never be disposed of in the environment or with unsorted refuse, but in designated collection points.

The product



The crossed-out wheel bin on the product or its accessories means that they belong to the family of electrical and electronic equipment.

European regulations required that products belonging to the family of electrical and electronic equipment are disposed of :

- either in collection points made available locally (dump, selective collection, etc.),
- or at distribution points when purchasing an equivalent device (free collection service).

In this way, you participate in the reuse and recovery of Waste Electrical and Electronic Equipment which may have potential effects on the environment and on human health.

Warranties, User Agreements

You will find all the information necessary for implementing the warranty and information about the licence agreements for this product in the full version of the user manual for this product on our website <http://www.sierrawireless.com> in the section "Support".



SIERRA
WIRELESS®

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www.sierrawireless.com

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