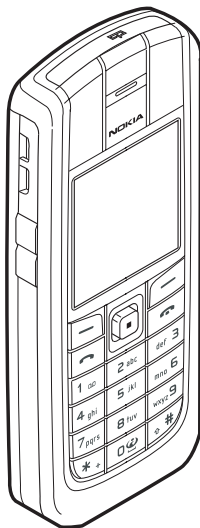


**NOKIA
6020**



User Guide

Nokia 6020 User Guide



9235963
Issue 1

DECLARATION OF CONFORMITY

We, NOKIA CORPORATION declare under our sole responsibility that the products RM-30 and RM-31 are in conformity with the provisions of the following Council Directive:1999/5/EC.

A copy of the Declaration of Conformity can be found at
http://www.nokia.com/phones/declaration_of_conformity/.

CE 168

LEGAL INFORMATION

Part No. 9235963, Issue No. 1

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EXPORT CONTROLS

This device may contain commodities, technology, or software subject to export laws and regulations from the U.S. and other countries. Diversion contrary to law is prohibited.

FCC/INDUSTRY CANADA NOTICE

Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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For your safety

Read these simple guidelines. Not following them may be dangerous or illegal.
Read the complete user guide for further information.



SWITCH ON SAFELY

Do not switch the device on when wireless device use is prohibited or when it may cause interference or danger.



ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.



INTERFERENCE

All wireless devices may be susceptible to interference, which could affect performance.



SWITCH OFF IN HOSPITALS

Follow any restrictions. Switch the device off near medical equipment.



SWITCH OFF IN AIRCRAFT

Follow any restrictions. Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING

Don't use the device at a refueling point. Don't use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Follow any restrictions. Don't use the device where blasting is in progress.



USE SENSIBLY

Use only in the normal position as explained in the product documentation. Don't touch the antenna unnecessarily.



QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products.



WATER-RESISTANCE

Your device is not water-resistant. Keep it dry.



BACK-UP COPIES

Remember to make back-up copies of all important information.



CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.



EMERGENCY CALLS

Ensure the device is switched on and in service. Press *End* as many times as needed to clear the display and ready the device for calls. Enter the official emergency number for your present location. Press *Call*. Do not end the call until given permission to do so.

■ About your device

The wireless device described in this guide is approved for use on the GSM 850, 1800, and 1900 or GSM 900, 1800, and 1900 networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.



Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

■ Network Services

To use the device you must have service from a wireless service provider. Many of the features in this device depend on features in the wireless network to function. These Network Services may not be available on all networks or you may have to make specific arrangements with your service provider before you can utilize Network Services. Your service provider may need to give you additional instructions for their use and explain what charges will apply. Some networks may have limitations that affect how you can use Network Services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, they will not appear on your device menu. Your device may also have been specially configured for your network provider. This configuration may include changes in menu names, menu sequence and icons. Contact your service provider for more information.

■ Shared memory

The following features in this device may share memory: contacts, text messages, SMS e-mail, voice tags, calendar, notes, multimedia messages, files stored in *Gallery*, configuration settings, Java™ games, and applications. Use of one or more of these features may reduce the memory available for the remaining features sharing the same memory. For example, saving many *Gallery* items may use all of the available memory. Your device may display a message that the memory is full when you try to use a shared memory feature. In this case, delete some of the information or entries stored in the corresponding shared memory before continuing. Some of the features may have a certain amount of memory specially allotted to them in addition to the memory shared with other features.

1. Welcome

Congratulations on your purchase of the Nokia 6020 mobile device. Your device provides many functions that are practical for daily use, such as a calendar, a clock, an alarm clock, and a built-in camera. The camera can be used for recording video clips and taking pictures that you can, for example, attach as wallpaper in the standby mode or as thumbnail pictures in *Contacts*. See "Camera," page 47.

You can personalize your device with cut-out covers and with themes. See "Themes," page 40. Also, a range of Nokia Xpress-on™ covers are available for your device.

Other features on your device are:

- Multimedia messaging. See "Multimedia messages," page 27.
- Instant messages. See "Instant messaging," page 32.
- Polyphonic sound (MIDI) that consists of several sound components played at the same time. The device supports Scalable Polyphonic MIDI (SP-MIDI) format.
- EDGE (enhanced data rates for GSM evolution). See "GPRS and EGPRS," page 44.
- J2ME™ (Java 2 Platform, Micro Edition). See "Applications," page 52.
- XHTML browser. See "Settings," page 40.

■ Accessibility solutions

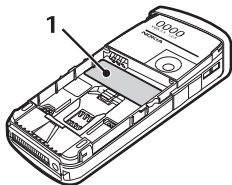
Nokia is committed to making mobile devices easy to use for all individuals, including those with disabilities. For more information, visit www.nokiaaccessibility.com.

■ Copyright protection

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

■ Find information about your device

Information about your device is provided on the device label (1), which is on the back of the device under the battery (see "Remove the back cover and battery," page 11). The label contains the model and serial numbers, as well as the following:



- Device type (such as RM-30 or RM-31)
- Device model (such as Nokia 6020 device)
- International mobile equipment identity (IMEI)
- FCC ID number

■ Contact your service provider

In many cases, the service provider will make available descriptions of its services and instructions for using features, such as the following:

- Voice mail and voice privacy
- Call waiting, call forwarding, and caller ID
- Messaging
- News and information services
- Selected Internet services

Service providers may differ in their support of features. Before you sign up with a service provider, make sure that the service provider supports the features that you need.

2. SIM card and battery

The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

Keep all SIM cards out of the reach of small children. For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider or another vendor.



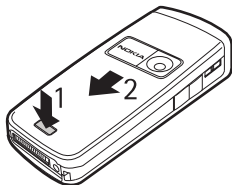
Note: Before installing or removing the battery or SIM card, always verify that the device is switched off and disconnected from any enhancement.



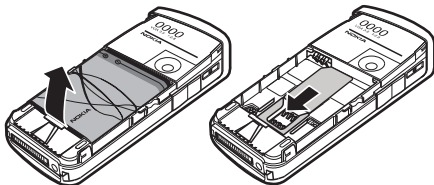
Note: Before removing the cover, always switch off the power and disconnect the charger and any other device. Avoid touching electronic components while changing the cover. Store and use your device with its covers attached.

■ Remove the back cover and battery

1. Push the back cover release button (1), and slide the back cover toward the bottom of the device (2). When the back cover is released, take it off the device.



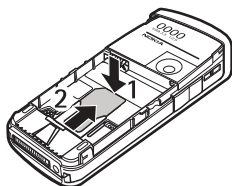
2. Remove the battery by lifting it as shown.



■ Insert the SIM card

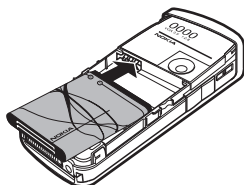
Insert the SIM card into the SIM card holder until it snaps into position. Make sure that the SIM card is properly inserted and that the gold-colored contact area on the card is facing downward.

If you need to remove the SIM card, press the SIM card release (1), and slide the SIM toward the top of the device (2).



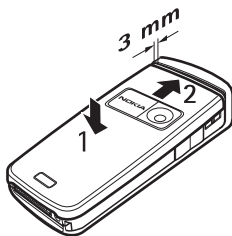
■ Replace the battery

The SIM card must be installed before installing the battery. Insert the battery so that the gold-colored contacts match up with those on the device. Always use original Nokia batteries, see "Nokia battery authentication guidelines," page 66.



■ Replace the back cover

Align the back cover on the back of the device (1) with a gap above the top of the back cover of approximately 3 mm. Push the back cover up to the top of the device to lock it (2).



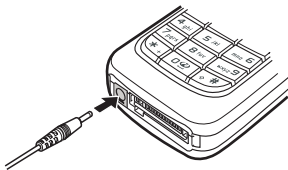
■ Charge the battery



Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

Your device is powered by a rechargeable battery. To charge the battery, do the following:

1. Plug the charger transformer into a standard ac outlet.
2. Insert the charger output plug into the charger port at the bottom end of the device.



After a few seconds, the battery indicator in the display starts to scroll from bottom to top. If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or any calls can be made.

You can use the device while the charger is connected. Use chargers indoors.

The BL-5B battery provides up to 3.5 hours of talk time and up to 14 days of standby time. Operation times are estimates and may vary depending on network conditions, charging, and device use. Charging the battery with the ACP-12U charger takes approximately 1 hour and 20 minutes while the device is in standby mode.

3. About your device

■ In-device help

Many features have brief descriptions (help text) that can be viewed on the display. To view the help text, scroll to a feature, and wait for about 15 seconds. Select *More* to view all of the description (if necessary) or *Back* to exit. For instructions on how to turn the help text feature on and off, see "Device settings," page 42.

■ Standby mode

The start screen is home base and indicates that the device is in the standby mode.

HOME—The name of your service provider may appear here. (1)

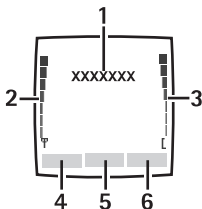
Signal strength—A higher bar indicates a stronger network signal. (2)

Battery level—A higher bar indicates more power in the battery. (3)

Left selection key—The *Left selection key* in the standby mode opens the **Go to** menu. See "Go to options," page 41. (4)

Middle selection key—Press the middle of the scroll key to select the item displayed in the bottom center (middle selection area) of the display screen. For example, in the standby mode, press the middle of the scroll key to open the **Menu**. See "Device menu," page 24. (5)

Right selection key—The *Right selection key* in the standby mode opens either the *Contacts* menu (default), a service provider's home page, or a user-specified function. See "Personal shortcuts," page 41. (6)



■ Device introduction

Power key (1)

Earpiece (2)

Loudspeaker (3)

Volume keys (4)

Voice recorder key (5)

To activate voice recorder. See "Voice recorder," page 48.

Left, Right, and Middle selection keys (6)

The function of these keys depends on the guiding text shown on the display above the keys. See "Standby mode," page 14.

Five-way joystick (7)

Enables scrolling through names, device numbers, menus or settings.

The five-way joystick is also used to move the cursor up, down, left, and right when writing text, using the calendar, and in some game applications. Pressing the joystick also functions as the *Middle selection key*, and pressing it briefly selects the function shown on the display above the joystick.

In the standby mode, the joystick functions as a shortcut. Move the joystick right to access the calendar, left to start writing an SMS message, up to activate the camera and down to access the list of contacts.

The *Call* key dials a phone number and answers a call. (8)

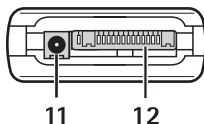
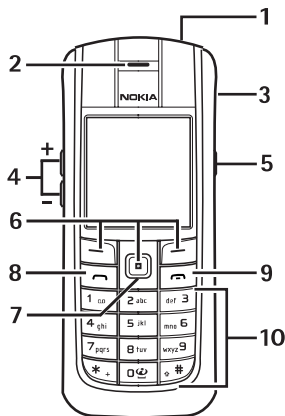
The *End* key ends an active call and exits from any function. (9)

0–9 enter numbers and characters. (10)

*and # are used for various purposes in different functions.

Charger connector (11)

Pop-Port™ connector used for headsets and the data cable. (12)

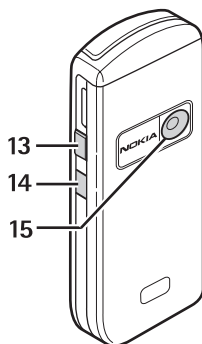


About your device

Voice recorder key to activate the voice recorder. (13)

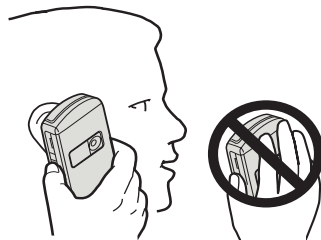
Infrared (IR) port (14)

Camera lens (15)



■ Antenna













Your device has an internal antenna.





Note: As with any other radio transmitting device, do not touch the antenna unnecessarily when the device is switched on. Contact with the antenna affects call quality and may cause the device to operate at a higher power level than otherwise needed. Avoiding contact with the antenna area when operating the device optimizes the antenna performance and the battery life.

■ Indicators and icons

The following icons may be displayed in the standby mode:

Icon	Indicates
	You have one or more text or picture messages. See "Text and SMS e-mail messages," page 30.
	The device has logged a missed call. See "Call log," page 36.
	Your device is connected to the instant messaging service, and the availability status is online or offline, respectively. See "Instant messaging," page 32.
	You have received one or several instant messages, and you are connected to the instant messages service. See "Instant messaging," page 32.
	You have one or more multimedia messages. See "Multimedia messages," page 31.
	You have one or more voice messages. See "Voice messages," page 30.
	Your device keypad is locked. See "Lock the keypad (keyguard)," page 23.
	Your device is set to the Silent profile. See "Profiles," page 40.
	The alarm clock is set to On. See "Alarm clock," page 49.
	The GPRS connection mode <i>Always online</i> is selected and the EGPRS service is available. Refer to "GPRS connection," page 44.
	The GPRS connection is established. Refer to "GPRS connection," page 44 and "Browse a service," page 57.
	The GPRS connection is suspended (on hold), for an incoming or outgoing call during the GPRS dial-up connection.



Forward all voice calls. All calls are forwarded to another number. If you have two phone lines, the indicator for line 1 is  and for line 2 is .

2

If you have two phone lines, this indicates that you are on the second phone line. See "Call settings," page 42.



Calls are limited to a closed user group. See "Security settings," page 46.

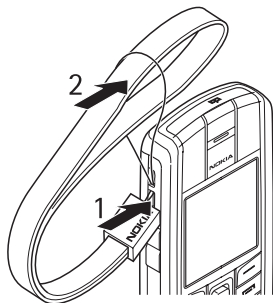


A headset, handsfree, loopset, or music stand is connected to the device.



■ Attach the wrist strap

Some versions of the device include a wrist strap. If your device has a wrist strap, thread the wrist strap through the eyelet on the upper left side of the device, as shown. Pull to tighten it.



4. Basic operations

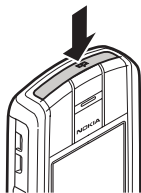
■ Switch the device on or off

1. To turn your device on or off, press and hold the **Power** key as shown.

If the device displays *Insert SIM card* even though the SIM card is properly inserted, or *SIM card not supported*, contact your service provider.

2. If the device asks for a PIN code, enter the PIN code (displayed as ****), and select **OK**.
3. If the device asks for a security code, enter the security code, and select **OK**.

See "Access codes," page 23 for more information.



■ Set the time

Select **Menu** > **Settings** > **Time and date settings** > **Clock** > **Set the time**. Enter the time (in *hh:mm* format), and select **OK** > *am* or *pm*.

■ Make and answer calls

Use the keypad—Enter the phone number (including the area code), and select **Call**. To delete a character to the left of the cursor, select **Clear**. To end the call or to cancel the call attempt, select **End**.

Use contacts—At the start screen, scroll down to view your contacts, scroll to the entry you want to call, and select **Call** to make the call.

Redial the last number—At the start screen, select **Call** twice.

Make an international call—Press * twice to enter the international prefix [a plus (+) sign] in place of the international access code. Then enter the country code, the area code without a leading zero (if necessary), and the phone number.

Answer or reject a call—Press **Call** to answer the call or **End** to reject the call. If *Forward if busy* is activated to your voice mailbox, the call is forwarded to your voice mail. If not, the call is rejected.

If you select **Silence**, only the ringing tone is muted. You can answer or reject the incoming call.

Answer a call with the keypad locked—See "Lock the keypad (keyguard)," page 23.

1-touch dialing—See "1-touch dialing," page 38.

Call waiting—See "Call settings," page 42.

Options during a call—Select **Options** during a call for some of the following options: *Mute* or *Unmute*, *Contacts*, *Menu*, *Record*, *Lock keypad*, *Auto volume on* or *Auto volume off*, *Loudspeaker* or *Normal*, and the network services *Answer* and *Decline*, *Hold* or *Unhold*, and *New call*.

■ Adjust the earpiece volume

To increase the volume of a call, press the upper *Volume* key. To decrease the volume of a call, press the lower *Volume* key. When adjusting the volume, a bar chart appears in the display indicating the volume level. See also *Automatic volume control* in "Call settings," page 42.

You can adjust the earpiece volume only during an active call.

■ Loudspeaker

You can use your device as a loudspeaker during a call.





Warning: Do not hold the device to your ear during the loudspeaker operation as the volume may be very high.

To activate the loudspeaker, press the *Right selection key* during a call. To deactivate the loudspeaker during a call, press the *Right selection key* again.

5. Write text

You can use two methods for entering text and numbers:

- **Standard mode** () is the only way to enter names into *Contacts* and to rename caller groups.
- **Predictive text input** () is a quick and easy method for writing messages.

Press # to switch predictive text on or off and to use predictive text in various modes.

■ Standard mode

Press a key once to insert the first letter on the key, twice for the second letter, etc. If you pause briefly, the last letter in the display is accepted and your device awaits the next entry.





Press *Clear* to backspace the cursor and delete a character.

Press and hold *Clear* to backspace continuously and delete characters.

Press 0 to enter a space and accept a completed word.

Press 1 to enter a period (.).

Press * to display special characters. See "Punctuation and special characters," page 22.

Press and hold # to switch between text and numeric entry. The icon  is displayed at the top of the screen when the device is in numeric entry mode. Depending on which capitalization mode you have selected, , , or  is displayed when the device is in text entry mode.

■ Predictive text

Predictive text input allows you to write messages quickly using your keypad and the built-in dictionary. It is faster than using the standard multi-tap method. You can use predictive text to write a message and create a calendar note.

To activate predictive text at any text entry screen, select **Options** > *Predictive text* and a language.

How to use predictive text

- For each letter of the word that you want to spell, press the corresponding key on your keypad only once, even if the letter you want is not the first letter on the key. The device guesses the word you are trying to spell.

Write text

- If a displayed word is not correct, press ***** to see other matches. To move forward through a list of matches, press ***** repeatedly. To return to the previous word in the list of matches, select *Prev*.
- Press *O* to accept the word, enter a space, and begin writing the next word.
- If *?* appears after a word, select **Spell** to add the word to the dictionary. See "Add words to the dictionary," page 22.
- Press *1* to insert a period into your message.
- Press and hold ***** to display special characters. See "Punctuation and special characters," page 22.

Compound words

Enter the first part of the word; to confirm it, scroll right. Enter the last part of the word; to confirm it, press *O*.

Add words to the dictionary

If you encounter a word that predictive text does not recognize, a question mark (?) follows the word, and **Spell** appears in the lower left of the display.

Select **Spell**, enter your new word using the keypad, and select **Save**. The word is added to the dictionary and to the message that you are writing.

Keep these factors in mind when adding words:

- To accept and save new words to the dictionary, select **Save**, press *O*, or delete the space between two words.
- Depending on the language and the length of the words, you may be able to add hundreds of words to the dictionary.
- When the dictionary is full, the most recent addition replaces the first.

■ Punctuation and special characters

While at any text entry screen, press ***** to display special characters (press and hold ***** if predictive text is on), or press ***** twice to display the *Insert smiley* menu.

Use the five-way joystick to navigate through the list of special characters. Once a character is highlighted, select *Insert* to insert the character into your message.

6. Device security

■ Lock the keypad (keyguard)

You can lock the keypad to prevent accidental key presses. To answer a call with keyguard on, press *Call*. During the call, all features function as normal. When you end or reject a call, the keypad automatically relocks.

- To lock the keypad, select **Menu** > *.
- To unlock the keypad, select **Unlock** > *.

When the keypad is locked, calls may be possible to the official emergency number programmed into your device.

■ Automatic keyguard

You can set your device to automatically lock the keys after a time you specify. See "Device settings," page 42 to activate this feature.

■ Access codes

The following access codes allow you to secure your device from unauthorized use. To change access codes, see "Security settings," page 46. Keep the new codes secret and in a safe place, separate from your device.

Security code—This code, supplied with the device, protects your device against unauthorized use. The preset code is 12345.

PIN code—This code, supplied with the SIM card, protects the card against unauthorized use. Turn the *PIN code request* on so that the code is requested each time the device is switched on. If you enter an incorrect PIN code three times in succession, the SIM card is blocked. You must enter the PUK code to unblock the SIM card and set a new PIN code.

PIN2 code—This code is supplied with some SIM cards and is required to access certain services, such as charging unit counters. If you enter an incorrect PIN2 code three times in succession, *PIN2 code blocked* appears in the display and you will be asked for the PUK2 code.

PUK code and *PUK2 code*—These unblocking codes may be supplied with the SIM card. For more information, contact your service provider.

Call restrictions password (4 digits)—This password is needed when using *Call restrictions*. You can obtain the password from your service provider.

Wallet code (4 to 10 digits)—The wallet code is required to access the wallet services. For further information, see "Wallet," page 55.

7. Device menu

Device features are accessed through the main menu of your device. Use the menus and submenus to select or view items and customize device features.

Some service providers order the devices specially programmed for their network. This may mean that some features are not shown on the menu.

In the standby mode, press the middle of the scroll key to select **Menu**. The first menu item is displayed.

You can view the menu as a list or as a grid:

List view—*List view* may be the default view for the main menu, depending on your service provider. Scroll up and down to view main menu selections one at a time.

Grid view—To switch between *List* and *Grid* view, see "Display settings," page 41. In *Grid* view, scroll up, down, right, and left to navigate through the main menu icons.

In the *Grid* view, the icon for the selected menu is outlined, and the name of the menu appears at the top of the display.

As you scroll through the menus, the menu number appears in the upper right corner of the display. Below the menu number is a scroll bar with a tab. The tab moves up or down as you scroll through the menus, providing a visual representation of your current position in the menu structure.

Open a menu item—Scroll to it, and press the *Middle selection key*.

Open a submenu—If the menu contains submenus, scroll to highlight the desired menu; then press the *Middle selection key*.

Return to the previous menu—Select *Back* (press the *Right selection key*) to return to the previous menu or submenu.

Return to the start screen—Press *End* from any menu screen.

■ Messages

The message services can only be used if they are supported by your network or your service provider.



To select the font size for reading and writing messages, select **Menu** > *Messages* > *Message settings* > *Other settings* > *Font size*.



Note: When sending messages, your device may display *Message sent*. This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Text messages (SMS)

Using the SMS (short message service), your device can send and receive multipart messages, which consist of several ordinary text messages. Invoicing may be based on the number of ordinary messages that are required for a multipart message.

Before you can send a message, you need to save some message settings. See "Text and SMS e-mail messages," page 30.

You can also send and receive text messages that contain pictures. A picture message can be a multipart message.




Note: Picture message function can be used only if it is supported by your network operator or service provider. Only compatible devices that offer picture message features can receive and display picture messages. The appearance of a message may vary depending on the receiving device.

The text messages function uses shared memory, see "Shared memory," page 8.

Write and send messages

Your device supports the sending of text messages beyond the character limit for a single message. Longer messages will be sent as a series of two or more messages. Your service provider may charge accordingly. Characters that use accents or other marks, and characters from some language options like Chinese, take up more space, limiting the number of characters that can be sent in a single message.

1. Select **Menu** > *Messages* > *Create message* > *Text message*.
2. Enter a message. See "Write text," page 21. To insert text templates or a picture into the message, see "Templates," page 26.
3. Select **Send**, or select *Call* to send the message.

The messages that you have sent will be saved in the *Sent items* folder if the setting *Save sent messages* is set to *Yes*. See "Text and SMS e-mail messages," page 30. Text messages are indicated with .

4. Enter the recipient's phone number, or search for the phone number in *Contacts*.
5. Select **OK** to send the message.

Options for sending a message




After you have written a message, select **Options** > *Sending options* and one of the following:

Send to many—Send the message to several recipients.

Send as e-mail—Send a message as an SMS e-mail (network service).

Sending profile—Use a predefined message profile to send the message. To define a message profile, see "Text and SMS e-mail messages," page 30.

Read and reply to a message

When you receive a message or an SMS e-mail, , the number of new messages, and *messages received* is shown. A blinking  indicates that the message memory is full. Before you can receive new messages, delete some of your old messages in the *Inbox* folder. If more than one message has been received, select the one that you want to read. An unread text message or SMS e-mail is indicated by .

1. Select **Show** to view the new message or **Exit** to view it later.

When you select **Options** while reading a message, some of the following options may be available: *Delete messages*, *Forward*, or *Edit* the message as a text message or an SMS e-mail; *Rename* the message you are reading or move it to another folder; *Copy to calendar* to copy text at the beginning of the message to your device calendar as a reminder note for the current day; *Message details* to view, if available, the sender's name and phone number, the message center used, and the date and time of receipt; *Use detail* to extract numbers, e-mail addresses, and website addresses from the current message.

When reading a picture message, select *Save picture* to save the picture in the *Templates* folder.

2. Select **Reply** and the message type to reply to a message.



When replying to an SMS e-mail, confirm or edit the e-mail address and subject first. Then write your reply message.

3. To send the message to the displayed number, select **Send** > **OK**.

Inbox and sent items folders

The device saves incoming text and multimedia messages in the *Inbox* folder. Sent text messages are saved in the *Sent items* folder, if the option to save sent messages is activated.

Templates

Your device includes text templates, indicated by , and picture templates, indicated by . To access the template list, select **Menu** > *Messages* > *Saved items* > *Text messages* > *Templates*.

Saved folders

To organize your messages, you can move some of them to the *Saved items* folder or add new folders for your messages. While reading a message, select **Options** > *Move* and the new folder.

To add or delete a folder, select **Menu** > *Messages* > *Saved items* > *Text messages* > *My folders*. To add a folder if you have not saved any folder, select **Add**. Otherwise, select **Options** > *Add folder*. To delete a folder, scroll to the folder that you want to delete, select **Options** > *Delete folder*.

Flash messages

Flash messages are text messages that are instantly displayed.



Note: Depending on your wireless service provider, you may not have access to all of the features described in this guide.

Writing a flash message

Select **Menu** > *Messages* > *Create message* > *Flash message*. Write your message. The maximum length of a flash message is 70 characters. To insert a blinking text into the message, select *Insert blink char.* from the options list to set a marker. The text behind the marker blinks until a second marker is inserted.



Note: Only devices that offer compatible flash message features can receive and display blinking flash messages.

Receiving a flash message

A received flash message is not automatically saved. To read the message, select **Read**. Select **Options** > *Use detail* to extract phone numbers, e-mail addresses and website addresses from the current message. To save the message, select **Save** and select the folder in which you want to save the message.

Multimedia messages



Note: Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may vary depending on the receiving device.

A multimedia message can contain text, sound, and a picture or a video clip. The device supports multimedia messages that are up to 100 KB. If the message contains a picture, the device scales it down to fit the display area.

The wireless network may limit the size of MMS messages. If the inserted picture exceeds this limit, the device may make it smaller so that it can be sent by MMS. The multimedia message function uses shared memory, see "Shared memory," page 8.

The default setting of the multimedia message service (*Allow multimedia reception*) is generally on. See "Multimedia messages," page 31.

Multimedia messaging supports the following formats:

- Picture: JPEG, GIF, WBMP, BMP, and PNG.
- Sound: scalable polyphonic MIDI (SP-MIDI), AMR audio, and monophonic ringing tones.
- Video clips in 3GP format with SubQCIF and QCIF resolution and AMR audio.

The device does not necessarily support all variations of these file formats. If a received message contains any unsupported elements, they may be replaced with the file name and *Object format not supported*.

You are not able to receive any multimedia messages if you have a call in progress, a game, or another Java application running. Because delivery of multimedia messages can fail for a variety of reasons, do not rely solely upon them for essential communications.

Write and send a message

To modify multimedia messaging settings, see "Multimedia messages," page 31. To check availability and subscribe to the multimedia messaging service, contact your service provider.

Copyright protections may prevent some images, music (including ringing tones) and other content from being copied, modified, transferred or forwarded.

1. Select **Menu** > *Messages* > *Create message* > *Multimedia msg*.
2. Enter a message. See "Write text," page 21.

To insert a file in the message, select **Options** > *Insert* and the desired option from *Gallery*, or select *Calendar note* or *Business card*.


To move the text component to the top or bottom of the message, select **Options** > *Place text first* or *Place text last*.

Your device supports the sending and receiving of multimedia messages that contain several pages (slides). To insert a slide in the message, select **Options** > *Insert* > *Slide*. Each slide can contain text, one image, and one sound clip.


If the message contains several slides, to open the desired one, select **Options** > *Previous slide*, *Next slide* to *Slide list*. To set the interval between the slides, select *Slide timing*.

The following options may also be available: *Delete* (to delete an image, slide, or sound clip from the message), *Preview*, or *Save message*. In *More options* the following options may be available: *Insert contact*, *Insert number*, *Message details* and *Edit subject*.

3. To send the message, select **Send**, or select **Options** > *Send to e-mail* or *Send to many*.
4. Enter the recipient's phone number (or e-mail address), or search for it in *Contacts*.

While the multimedia message is being sent,  is displayed, and you can use other functions on the device. If there is an interruption while the message is being sent, the device tries to resend it a few times. If this fails, the message will remain in the *Outbox* folder, and you can try to resend it later.


The messages that you send are saved in the *Sent items* folder if the setting *Save sent messages* is set to *Yes*. See "Multimedia messages," page 31.

Multimedia messages are indicated with .


Read and reply to a message



Important: Exercise caution opening messages. Multimedia message objects may contain malicious software or otherwise be harmful to your device or PC.

When your device receives a multimedia message,  and *Multimedia message received* are displayed. The appearance of a multimedia message may vary depending on the receiving device.

1. Select **Show** to view the message or **Exit** to view it later.

If more than one message has been received, select the one that you want to read. An unread multimedia message is indicated by .


2. Scroll to view the message.

Refer also to the options in *Gallery* (see "Gallery," page 46).

Message folders

The device saves the received multimedia messages in the *Inbox* folder. Multimedia messages that are not sent are moved to the *Outbox* folder. The multimedia messages that you wish to send later can be saved in the *Saved items* folder. The multimedia messages that are sent are saved in the *Sent items* folder of the *Multimedia msgs.* submenu if the setting *Save sent messages* is set to *Yes*. See "Multimedia messages," page 31.

Message memory full


When you have a new multimedia message waiting and the memory for the messages is full,  blinks, and *Multimedia memory full, view waiting msg.* is shown. To view the waiting message, select **Show**. To save the message, select **Options** > *Save message*. To delete old messages, select the folder, then the old message to be deleted. To discard the waiting message, select **Exit** > **Yes**. If you select **No**, you can view the message.

Voice messages

The voice mailbox is a network service, and you may need to subscribe to it. For more information and for the voice mailbox number, contact your service provider.

Select **Menu** > *Messages* > *Voice messages* and one of the following:

- *Listen to voice messages* to call your voice mailbox.
- *Voice mailbox number* to enter, search for, or edit your voice mailbox number.

If supported by the network,  shows new voice messages. Select **Listen** to call your voice mailbox number.

Select and hold **1** to call your voice mailbox if you have the number set.

Info messages

With the info message network service you may be able to receive messages on various topics. For details, contact your service provider.

Service commands

Select **Menu** > *Messages* > *Service commands*. Enter and send service requests (also known as USSD commands), such as activation commands for network services, to your service provider.

Delete all messages from a folder

To delete all messages from a folder, select **Menu** > *Messages* > *Delete messages*. Select the folder from which you want to delete the messages, and select **OK** to confirm.

If the folder contains unread messages, the device will ask whether you want to delete them.

Message settings

The message settings affect the sending, receiving, and viewing of messages.

Text and SMS e-mail messages

1. Select **Menu** > *Messages* > *Message settings* > *Text messages* > *Sending profile*.
2. Select the message profile that you want to change, and update the following settings as you choose: *Message center number* (delivered by your service provider), *Messages sent via*, *Message validity*, *Default recipient number* (text messages) or *E-mail server* (SMS e-mail), *Delivery reports*, *Use GPRS*, *Reply via same center* (network service) and *Rename sending profile*.

3. Select *Back*.
4. Select *Save sent messages*. Select *Yes* to set the device to save sent multimedia messages in the *Sent items* folder. If you select *No*, the sent messages are not saved.

Multimedia messages

Select **Menu** > *Messages* > *Message settings* > *Multimedia msgs.* and one of the following:

Save sent messages—Select *Yes* to set the device to save sent multimedia messages in the *Sent items* folder. If you select *No*, the sent messages are not saved.

Delivery reports—Select *On* for the network to send delivery reports about your messages (network service).

Scale image down—Select *Yes* to change the image size when you insert an image into a multimedia message.

Default slide timing—Set the default time for slides in multimedia messages.

Allow multimedia reception—Select *No*, *Yes*, or *In home network* to use the multimedia service. If *Allow multimedia reception* is set to *Yes* or *In home network*, your operator or service provider may charge you for every message you receive. The default setting to receive multimedia messages is generally on.

Incoming multimedia messages—Select *Retrieve* to set the device to automatically fetch newly received multimedia messages or *Reject* if you do not wish to receive multimedia messages. This setting is not shown if *Allow multimedia reception* is set to *No*.

Configuration settings—Select *Configuration* and select the default service provider for retrieving multimedia messages. Select *Account* to see the accounts provided by the service provider. If more than one account is displayed choose the one that you want to use. You may receive the settings as a configuration message from the service provider. To enter the settings manually see "Configuration settings," page 45.

Allow advertisements—Choose if you allow the reception of messages defined as advertisements. This setting is not shown if *Allow multimedia reception* is set to *No*.

Other settings

Select **Menu** > *Messages* > *Message settings* > *Other settings* > *Font size* to select the font size for reading and writing messages.

Message counter

To view how many messages you have sent and received, select **Menu > Messages > Message counter > Sent messages, Received messages, or Clear counters** to clear the counters.

■ Instant messaging

Take text messaging to the next level by experiencing instant messaging (IM) in a wireless environment. Engage in instant messaging with friends and family, regardless of the mobile system or platform they are using (like the Internet), as long as you all use the same IM service. Check with your wireless service provider for availability.

Before you can start using IM on your device, you must first subscribe to your wireless service provider's text messaging service. GPRS network service is required to use instant messaging. You must also register with the IM service you want to use. See "Register with an IM service," page 32 for more information.

Depending on both your IM service provider and your wireless service provider, you may not have access to all of the features described in this guide.

Register with an IM service

Before you can use IM, you must register with an IM service to obtain an IM user name and password. You can obtain an IM user name and password by registering over the Internet (using your computer) with the IM service provider you have selected. During the registration process, you will have the opportunity to create the user name and password of your choice. For more information about signing up for IM services, contact your wireless service provider.

IM icons and menu items

Each IM service provider has its own unique interface, so the IM menu items, screen display text, and icons on your device may appear differently for each IM service. If you have questions about the differences in the various IM service providers' screen text and icons, contact your wireless service provider for more information.

IM menus

Offline

When you select **Menu > IM**, a list of available IM services is displayed. Select the desired IM service to access the IM offline menu options: *Login, Saved convers., and Connect.settings*. Depending on the IM service provider you are using, these may not be the exact menu items displayed. See "IM icons and menu items," page 32.

Online

After you log into IM, the following IM online menu options appear: *Conversations*, *IM contacts*, *Add contact*, *Create group*, *Saved convers.*, *Availability*, *Connect settings*, *Blocked list*, and *Logout*. Depending on the IM service provider you are using, these may not be the exact menu items displayed. See "IM icons and menu items," page 32.

Log in and log out

To log in, follow these steps:

1. Select **Menu** > *IM* and the IM service you want to log into.
You must select the IM service every time you log in.
2. Select *Login*.
3. At the prompt, enter your user name if it is not already displayed, and select **OK**.
4. At the prompt, enter your password, and select **OK**.

Depending on your IM service, you may not need to enter your user name and password manually every time you log in.



Tip: To set the device to automatically connect to the instant messaging service when you enter the *Instant messages* menu, connect to the service, select *My settings* > *Automatic login* > *On IM start-up*.

To disconnect from the service, select *Logout*.

Begin an IM session

You can send instant messages to anyone if you have the person's user name and you use the same IM service. As the conversation progresses, the most recent message appears at the top of the screen, causing the previous messages to move down one level (some IM services may do this in the opposite direction).

If you want to chat with a person, you must first add that person to *IM contacts*. See "IM contacts," page 34.

To begin an IM session with one contact, follow these steps:

1. From the *Instant messages* online menu, select *IM contacts*.
2. Scroll to a contact who is online, and select **Select** > **Open**.

A conversation screen is opened, and the contact's name is displayed at the top.

3. Select **Write**, and enter a message. See "Write text," page 21.
4. When you finish the message, select **Send**.

Begin a group chat

You can create your own private chat groups. The participants must be entered into *IM contacts*. See "IM contacts," page 34.

1. Select *Instant messages > Create group*.
2. Enter the group name (up to 10 characters), and select **OK**.
3. After your screen name appears, select **OK**.
The group chat screen is displayed.
4. To add group members, select **Options > Group members**.
5. Select the contact whom you want to invite to the group chat.
6. Enter the invitation text, and select **Send**.

Receive and reply to messages

If you have an active chat open and receive an instant message from the contact or group member with whom you are chatting, the new message is displayed on the conversation screen in the sequence in which they are received. Select **Write** to reply.

If you receive an instant message when you have the IM application open but do not have an active chat open, a screen appears showing you have a new instant message with the name of the sender. Select **Open** to open the conversation screen with that contact's new message displayed. To reply, select **Write**, enter a message, and select **Send**.

If you receive an instant message when you are logged in to the IM service but do not have the IM application open on your device, a message is displayed telling you that a new IM message has been received. Select **Start** to open the IM application and view the new message.

Return to chat session

Select *Instant messages > Conversations*. This list displays all IM conversations and group chats in which you are currently participating. To view a conversation or continue chatting, scroll to a group name or contact name, and select **Select**.

IM contacts

You can add the names of contacts with whom you interact frequently by instant messaging to the *IM contacts* list.

Add a new contact

To add a person to *IM contacts* during an instant messaging session, select **Options > Add**.

To add a new contact from the IM online menu, select *Add contact*. Enter the contact's user name for the IM service, and select **OK**. Enter a nickname for the contact, and select **OK**. The contact is added to your *IM contacts* list.

To add a new contact from the IM contacts list, select any contact to open the IM contacts menu. Select *Add contact*, enter the contact's user name for the IM service, and select **OK**. Enter a nickname for the contact, and select **OK**. The contact is added to your *IM contacts* list.

Remove a contact

Select *Instant messages* > *IM contacts*, the contact you want to remove and *Remove contact* > **OK**.

Block or unblock contacts

To block or unblock instant messages from a contact, select *IM contacts* from the IM online menu, the contact name, and *Block contact* or *Unblock contact* > **OK**.

To view a list of the contacts you have blocked, select *Blocked list* from the IM online menu.

Save chat session

You can save a chat session while you have the conversation open.

Select **Options** > *Save*.

To view a saved chat session, go to the IM online menu, select *Saved convers.* and the desired conversation name to open it for viewing. While viewing the saved conversation, you can select *Delete* or **Options** > *Rename*.

Set your availability

You can determine if other users can tell whether you are available or not.

From the *Instant messages* menu, select *Availability Available for all*, *Avail. for contacts*, or *Appear offline*.

IM settings

You can customize your IM settings, depending upon the IM service you have selected. Select *Instant messages* > *Connect. settings* and one of the following:

Configuration—Select the set you would like to activate.

Account—Choose the account you want to use.

User ID—View or to edit the user ID.

Password—Enter the password.

■ Call log



The device registers the phone numbers of missed, received and dialed calls, and the approximate length of your calls.

The device registers if it is switched on and within the network's service area, and the network supports these functions.

To view recent call logs, select **Menu** > *Call log* > *Missed calls*, *Received calls* or *Dialed numbers*.

When viewing a list, select **Options** to view the date and the time of the call, edit or delete the phone number from the list, save the number in *Contacts*, or send a message to the number.

Delete log contents

To delete recent call lists, select **Menu** > *Call log* > *Delete recent call lists* > *All*, *Missed*, *Received*, or *Dialed*.

Counters and timers



Note: The actual invoice for calls and services from your service provider may vary, depending upon network features, rounding off for billing, taxes, and so forth.


Select **Menu** > *Call log* > *Call timers* for approximate information on your recent communications and to clear timers.

Some timers may be reset during service or software upgrades.

■ Contacts



You can save names and phone numbers (contacts) in the device memory and the SIM card memory.

- The device memory may save names with numbers and text notes about each name. You can also save an image for a certain number of names.
- Names and numbers saved in the SIM card memory, are indicated by .

Contact settings


Select **Menu** > *Contacts* > *Settings* > *Memory in use*, *Contacts view*, or *Memory status*.

Add contact

Select **Menu** > *Contacts* > *Add new contact*. Enter the name and the phone number. When the name and number are saved, select **OK**.

Add numbers, text or an image

You can save different types of phone numbers, short text items, and an image for each name in the internal device memory for contacts.

The first number saved is automatically set as the default number and is indicated with a frame around the number type indicator, for example . When you select a name from contacts to make a call, the default number is used unless you select another number.

1. Make sure that the memory in use is either *Phone* or *Phone and SIM*.
See "Contact settings," page 36.

2. Open your contacts list and scroll to the contact you want to modify.

3. Select **Details** > **Options** and one of the following:

Add number—Select one of the number types, enter the number, and select **OK** to save it. To set the selected number as the default number, select *Set as default*.

Add detail—Select one of the text types, enter the text (see "Write text," page 21), and select **OK** to save it.

Add image—When you select this option, *Gallery* is opened automatically so that you can choose the image. Open the image you want to add, and select **Options** > *Save to contacts*.

4. Select **Back** > **Exit** to return to the standby mode.

To change the number or text type, select *Change type* in the options list.

You cannot change the type of an ID when it is in *IM contacts* or the *Subscribed names* list.

Search for a contact

Select **Menu** > *Contacts* > *Find*. To find a contact name more quickly, scroll down in the standby mode. You can enter the first characters of the name for which you are searching in the pop-up window.

Contact options

The following options may be available in the *Contacts* menu:

Add new contact

Delete

Copy—Copy names and phone numbers between the device contact directory and the SIM card memory.

Settings—Select how the names and numbers are displayed, and view the free and used memory capacity. See "Contact settings," page 36.

1-touch dialing—Assign a number to a 1-touch dialing key. To activate 1-touch dialing, see "1-touch dialing," page 38.

Service numbers—Call the service numbers of your service provider if the numbers are included on your SIM card (network service).

My numbers—View the phone numbers assigned to your SIM card. Only shown, if the numbers are included on your SIM card.

Caller groups—Arrange the names and phone numbers saved in the memory into caller groups with different ringing tones.

Edit or delete details

1. Search for the contact that you want to edit or delete, and select **Details**.
2. Scroll to the name, number, text item, or image that you want to edit or delete, and select **Options**.
3. Select *Edit name*, *Edit number*, *Edit detail*, *Change image*, *Add number*, *Add detail*, *Add image*, *Delete number*, *Delete detail*, or *Delete image*.

You cannot edit or delete an ID when it is in *IM contacts* or the *Subscribed names* list.

Deleting an image attached to the contact does not delete it from *Gallery*.

Send and receive a business card

You can send and receive a person's contact information as a business card if you are using a compatible device. When you have received a business card, select **Show** or **Play** > **Save** to save the business card in the device memory. To discard the business card, select **Exit** > **Yes**.

To send a business card, do the following:

1. In *Contacts*, search for the name and phone number that you want to send.
2. Select **Details** > **Options** > *Send bus. card* > *Via infrared*, *Via text message* (network service) or *Via multimedia* (network service).
3. Select *Primary number* or *All details*.

1-touch dialing

To assign a number to a 1-touch dialing key, do the following:

1. Select **Menu** > *Contacts* > *1-touch dialing*, and scroll to a key number.
2. Select **Assign**, or if a number has already been assigned to the key, select **Options** > *Change*.

3. Select **Find** and the name and number that you want to assign.

If the *1-touch dialing* function is off, the device asks whether you want to activate it. See also *1-touch dialing* in "Call settings," page 42.

To use 1-touch dialing, hold down the desired 1-touch dialing key until the call begins.

Voice dialing

To make a call, say a voice tag that has been added to a phone number. Any spoken word, such as a person's name, can be a voice tag. You can add up to 10 voice tags.

Before using voice tags, note the following:

- Voice tags are not language-dependent. They are dependent on the speaker's voice.
- You must say the name exactly as you said it when you recorded it.
- Voice tags are sensitive to background noise. Record voice tags and use them in a quiet environment.
- Very short names are not accepted. Use long names and avoid similar names for different numbers.




Note: Using voice tags may be difficult in a noisy environment or during an emergency, so you should not rely solely upon voice dialing in all circumstances.

Add and manage voice tags

Save or copy the contacts to which you want to add a voice tag in to device memory. You can also add voice tags to the names in the SIM card. If you replace your SIM card with a new one, you must delete the old voice tags before you add new ones.

1. Scroll down in the standby mode to open your contact list.
2. Scroll to the contact to which you want to add a voice tag, and select **Details**.
3. Scroll to the phone number you want, and select **Options** > *Add voice tag*.
4. Select **Start**, and say clearly the words you want to record as a voice tag.

After recording, the device plays the recorded tag.  appears after the phone number with a voice tag.

To check the voice tags, select **Menu** > *Contacts* > *Voice tags*. Scroll to the contact with the voice tag that you want, and select **Select** to see the options to listen to, delete, or change the recorded voice tag.

Make a call

In the standby mode, select and hold the *Right selection key*. A short tone is played, and *Speak now* is displayed. Say the voice tag clearly. The device plays the recognized voice tag and dials the voice tag phone number after 1.5 seconds.

■ Settings



Profiles

Use *Profiles* to adjust and customize ringing tones and sound tones for different events and environments. You can customize the profiles and activate a profile to use it. Available profiles are *Normal*, *Silent*, *Meeting*, *Outdoor*, *My profile 1*, and *My profile 2*.

Select **Menu** > *Settings* > *Profiles*. Select a profile and one of the following:

Activate—Activate the selected profile.

Customize—Personalize the profile. Select the setting you want to change and make the changes.

Timed—Set the profile to be active until a certain time up to 24 hours, and set the time for the profile setting to end. When the time set for the profile expires, the previous profile that was not timed, becomes active.

Themes

A theme is a package that may include a screen saver, a wallpaper image, a ringing tone, and a color scheme to customize your device for different events and environments. Themes are stored in *Gallery*. To activate a theme, do the following:

1. Select **Menu** > *Settings* > *Themes*. To activate a theme, select *Select theme*.

The gallery is automatically opened so that you can locate a theme.

2. Open the *Themes* folder, scroll to a theme, and select **Options** > *Apply theme*.

See also to "Gallery," page 46.

To download new themes, select **Menu** > *Settings* > *Themes* > *Theme downloads*. See "Download," page 59.

Tone settings

To change the tone settings for the active profile, select **Menu** > *Settings* > *Tone settings*. Select and change *Incoming call alert*, *Ringing tone*, *Ringing volume*, *Vibrating alert*, *Message alert tone*, *Instant message alert tone*, *Keypad tones*, and *Warning tones*. You can find the same settings in the *Profiles* menu. See "Profiles," page 40.

Select *Alert for* to set the device to ring only upon calls from phone numbers that belong to a selected caller group. Scroll to the caller group you want, or select *All calls* > **Mark**.

Personal shortcuts

With personal shortcuts you get quick access to frequently used device functions.

Right selection key

Select **Menu** > *Settings* > *Personal shortcuts* > *Right selection key* and a device function from the list to assign to the *Right selection key*. See "Standby mode," page 14. This menu depends on services available through your service provider and may not be shown.


Go to options

To assign device functions from a predefined list to the **Go to** menu, select the *Left selection key*.

Select **Menu** > *Settings* > *Personal shortcuts* > *Select 'Go to' options* to add functions to the shortcut list. Select *Organize 'Go to' options* to rearrange the functions on your personal shortcut list. See "Standby mode," page 14.

Voice commands

You can activate certain device functions by saying a voice command. Up to five functions can be selected for voice commands.

Select **Menu** > *Settings* > *Personal shortcuts* > *Voice commands*. Select the function folder that you want, scroll to the function to which you want to add a voice command, and select **Add**. A voice command is indicated with .

When you are using voice commands, the same guidelines apply in "Make a call," page 39.

Display settings

Select **Menu** > *Settings* > *Display settings* and one of the following:

Wallpaper—Set your device to display a background image, known as wallpaper, when the device is in the standby mode.

Screen saver—Select *Select s. saver* to choose an animation or a still image as screen saver from *Gallery*. Select in *Time-out* the time after which the screen saver will be activated. Select *On* to activate the screen saver.

Independent of the screen saver settings, for power saving purposes, a digital clock view is activated when no device function is used after a certain time.

Color schemes—Change the color in some display components, such as indicators, the signal bar, the battery bar, and the background image that appears when using a menu function.

Menu view—Set the way the device displays the main menu.

Operator logo—Set your device to display or hide the operator logo.

Time and date settings

Select **Menu** > *Settings* > *Time and date settings* and one of the following:

Clock—Set the device to show the clock in the standby mode, adjust the clock, and select time zone and format.

Date—Set the device to show the date in the standby mode, set the date, and select the date format and separator.

Auto-update of date & time (network service)—Set the device to automatically update the time and date according to the current time zone.

Call settings

Select **Menu** > *Settings* > *Call settings*. The following options may be available:

Automatic volume control—Set the device to automatically adjust the speaker volume according to the background noise.

Call forwarding (network service)—Forward your incoming calls. For details, contact your service provider.

Anykey answer—Select *On*; to answer an incoming call, briefly select any key except *Power*, *End*, *Right selection key*, or *Left selection key*.

Automatic redial—Select *On*; your device will make a maximum of 10 attempts to connect the call after an unsuccessful call attempt.

1-touch dialing—Select *On*; to dial the names and phone numbers assigned to the 1-touch dialing keys from 2 to 9, select and hold the corresponding number key.

Call waiting—Select *Activate* for the network to notify you of an incoming call while you have a call in progress (network service).

Summary after call—Select *On*; the device briefly displays the approximate duration and cost (network service) of the call after each call.

Send my caller ID (network service)—Select *Set by network*, *Yes*, or *No*.

Line for outgoing calls (network service)—Select phone line 1 or 2 to make calls. This option is shown only if supported by your SIM card.

Device settings

Select **Menu** > *Settings* > *Phone settings*. The following options may be available:

Phone language—Set the display language of your device. If you select *Automatic*, the device selects the language according to the information on the SIM card.

Automatic keypad lock—Set the keypad of your device to lock automatically after a preset time delay when the device is in the standby mode and no function of the device has been used. Select *On*, and set the time from 5 seconds to 60 minutes.

When the keypad lock is on, calls still may be possible to the official emergency number.

Cell info display—Select *On* to receive information from the network, depending on the network cell used (network service).

Welcome note—Enter the note you would like to be shown briefly when the device is switched on. To save the note, select **Save**.

Operator selection—Select *Automatic*; the device automatically selects one of the cellular networks available in your area. Select *Manual* and a network that has a roaming agreement with your service provider.

Confirm SIM service actions—See "SIM services," page 62.

Help text activation—Select whether the device shows the help texts.

Start-up tone—Select whether the device plays a start-up tone when switched on.

Connectivity

To define the settings for GPRS dial-up connections, establish an infrared connection between the device and a compatible device.

Infrared

You can set up the device to receive data through its infrared (IR) port. To use an IR connection, the device with which you want to establish a connection must be IrDA compliant. You can send or receive data such as business cards, graphics, images, sound clips, videos and calendar notes to or from a compatible phone or data device (for example, a computer) through the IR port of your device.

Do not point the IR beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

Send and receive data


Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices.


To activate the IR port of your device to receive data through IR, select **Menu > Settings > Connectivity > Infrared**.

The user of the sending device selects the desired IR function to start data transfer.

If data transfer is not started within 2 minutes after the activation of the IR port, the connection is cancelled and has to be started again.

IR connection indicator

When  is shown continuously, the IR connection is activated and your device is ready to send or receive data through its IR port.

When  blinks, your device is trying to connect to the other device or a connection has been lost.

GPRS and EGPRS

GPRS (general packet radio service) is a network service that allows mobile devices to be used for sending and receiving data over an Internet protocol (IP)-based network. GPRS is a data bearer that enables wireless access to data networks such as the Internet.

EGPRS (enhanced GPRS), also known as EDGE (enhanced data rates for global evolution), is similar to GPRS. For more information on the availability of EGPRS and data transfer speed, contact your service provider.

When you have selected *GPRS* as a data bearer, the device uses EGPRS instead of GPRS if it is available in the network. You cannot select between EGPRS and GPRS in your device, but for some applications, you may be able to select either *GPRS* or *GSM data* (CSD—circuit switched data) as the data bearer. The data bearer is part of the preferred access point and can be changed in *Configuration settings* (see "Configuration settings," page 45).

The applications that may use GPRS are MMS, instant messaging, browsing sessions, remote SyncML, Java application downloading, and the PC dial-up (for example, Internet connections).

Before you can use GPRS technology, contact your service provider for availability of and subscription to the GPRS service, and save the GPRS settings for each of the applications used over GPRS.

GPRS connection

Select **Menu** > *Settings* > *Connectivity* > *GPRS* > *GPRS connection* and one of the following:

Always online—Set the device to automatically register to a GPRS network when you switch the device on.

When needed—Set the device to establish GPRS registration and connection when an application using GPRS needs it and to close the connection when you end the application.

GPRS modem settings

You can connect the device via infrared or a data cable connection to a compatible PC and use the device as a modem to enable EGPRS connectivity from the PC.

To define the settings for EGPRS connections from your PC, select **Menu** > *Settings* > *Connectivity* > *GPRS* > *GPRS modem settings* and one of the following:

Active access point—Activate the access point that you want to use.

Edit active access point—Change the access point settings:

- Select *Alias for access point*. Enter the name that you would like for the activated access point, and select **OK**.

- Select *GPRS access point*. Enter the access point name (APN) to establish a connection to an EGPRS network, and select **OK**. Contact your network operator or service provider for the APN.

You can also set the GPRS dial-up service settings (access point name) on your PC using the Nokia Modem Options software. See "PC Suite," page 63. If you have set the settings both on your PC and on your device, the PC settings will be used.

Enhancement settings

The enhancement settings menu is shown only if the device is or has been connected to a compatible mobile enhancement, charger, or hands-free unit.

Select **Menu** > *Settings* > *Enhancement settings*. You can select an enhancement menu if the corresponding enhancement is or has been connected to the device. Depending on the enhancement, you can select some of the following options: *Default profile*, *Automatic answer*, *Lights*, and *Ignition detector*.

Configuration settings

Some of the network services need to have the correct configuration settings on your device. Get the settings from a service provider as a configuration message, or enter your personal settings manually. The service provider may provide a PIN that is needed to save the settings. For more information on the availability of the settings, contact your service provider. Configuration settings from up to 10 different service providers can be stored in the device and can be managed within this menu.

Select **Menu** > *Settings* > *Configuration settings* and one of the following:

Default configuration settings—View the list of service providers stored on the device (the default service provider is highlighted), and select another service provider as default. Scroll to a provider, and select **Details** to view the list with supported applications. To delete a service provider from the list, select **Options** > *Delete*.

Activate default in all applications—Set the applications to use the settings from the default service provider.

Preferred access point—Select another access point. Normally the access point from your service provider is to be used.

To enter, view and edit the settings manually, select **Menu** > *Settings* > *Configuration settings* > *Personal configuration settings*.

To add a new configuration, select **Add new** or select **Options** > *Add new*. Choose one of the application types from the list and enter all the necessary settings. To activate the settings, select **Back** > **Options** > *Activate*.

To view or to edit the user-defined settings, select the application that you want to view, and select the setting to edit.

Security settings

When security features that restrict calls are in use (such as call restriction, closed user group, and fixed dialing) calls still may be made to the official emergency number programmed into your device.

Select **Menu** > *Settings* > *Security settings* and one of the following:

PIN code request—Set the device to request your PIN code every time the device is switched on. Some SIM cards do not allow the PIN code request to be turned off.

Call restrictions (network service)—Restrict incoming calls to and outgoing calls from your device. A restriction password is required.

Fixed dialing—Restrict your outgoing calls to selected phone numbers if this function is supported by your SIM card.

Closed user group (network service)—Specify the group of people whom you can call and who can call you.

Security level—Select *Phone* for device to request the security code whenever a new SIM card is inserted. Select *Memory* for the device to request the security code when the SIM card memory is selected and you want to change the memory in use.

Access codes—Change the security code, PIN code, PIN2 code, or restriction password.

Code in use—Select whether the UPIN or PIN code should be active.

Restore factory settings

To reset some of the menu settings to their original values, select **Menu** > *Settings* > *Restore factory settings*.

■ Operator menu

This menu lets you access a portal to services provided by your service provider. This menu is operator specific. The name and the icon depend on the operator. For more information, contact your service provider.

The operator can update this menu with a service message. For more information, refer to "Service inbox," page 59.

■ Gallery

In this menu, you can manage graphics, images, video clips, recordings, and tones. These files are arranged in folders.



Your device supports a digital rights management (DRM) system to protect acquired content. A piece of content (for example a ringing tone) can be protected and associated with certain usage rules, such as the number of usage times and a certain usage period. The rules are defined in the activation key of the content, which can be delivered either with the content or independently, depending on the service provider. You may be able to update these activation keys. Always check the delivery terms of any content and activation key before acquiring them, as they may be subject to a fee.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

1. Select **Menu** > **Gallery**.

A list of folders is displayed. *Images, Video clips, Themes, Graphics, Tones, and Recordings* are the default folders on the device.

2. Scroll to a folder, and select **Open** to view a list of files in the folder or **Options** to choose from additional options.
3. After you open a folder, select the file that you want to view and **Open**.
If you select the *Themes* folder, scroll to a theme, and select **Open** > **View** to view the theme package. To choose it as your theme, select **Options** > *Apply theme*.
4. After you open a file, select **Options** to choose additional options.

Media



Camera

You can take photos or record video clips with the built-in camera. The camera produces pictures in JPEG format and the video clips in 3GP format.

The Nokia 6020 device supports an image capture resolution of 640 x 480 pixels. The image resolution in these materials may appear different.

Take a photo or a video clip

Select **Menu** > **Media** > **Camera**. The live image appears on the display, and you can use the display as a viewfinder. Scroll left and right to change the camera mode: *Standard photo, Portrait photo, Video, or Night mode* (if the lighting is dim for taking photos). If you want to add the photo to a name or a phone number saved in contacts, select *Portrait photo*.

To take a photo, select **Capture**. A shutter sound is heard. The device saves the photo in the *Images* folder of the *Gallery* menu.

If you want to send the photo as a multimedia message, select **Send**.

Select **Back** to take another photo or **Options** and select an option to rename or zoom the saved photo, to set the contrast, to see the details, to set the photo as wallpaper, to open the gallery, or to delete it.

You can activate the self-timer of the camera for one picture at a time. Put the camera in photo mode, and select **Options** > *Self-timer* > **Start**. After the timeout, the camera takes the photo. While the self-timer is running, a beeping sound is heard.

To start recording a video clip, select **Record**. When you are recording a video clip, the remaining recording time is shown on the top of the display.

To pause the recording, select **Pause**. To resume the recording, select **Continue**. To stop the recording, select **Stop**. The device saves the recording in the *Video clips* folder of the *Gallery* menu. To view the recorded video clip, select **Play**.

Select **Back** to start recording a new video clip. Select **Options** and an option to delete or rename the saved video clip, to set the contrast, to see the details, to send it as a multimedia message, to open the gallery, or to mute/unmute the microphone.

Camera settings

Select **Menu** > *Media* > *Camera* > **Options**. Depending on the active camera mode, the following options may appear: *Change mode*, *Self-timer*, *Open gallery*, *Settings* to adjust the camera settings, *Default mode*, *Image quality*, *Video clip length*, *Camera sounds*, or *Default title*.

Voice recorder

You can record pieces of speech, sound, or an active call for up to 5 minutes. For example, this is useful when recording a name and phone number for writing down later.

The recorder cannot be used when a data call or GPRS connection is active.

Record

1. Select **Menu** > *Media* > *Voice recorder*.
2. To start the recording, select *Record*. To start the recording during a call, select **Options** > *Record*. While recording a call, all parties to the call will hear a faint beeping sound approximately every 5 seconds.
3. To end the recording, select **Stop**. The recording will be saved in the *Recordings* folder of the *Gallery* menu.
4. To listen to the latest recording, select *Play last recorded*.
5. To send to the latest recording, select *Send last recorded*. The recording can be sent through IR or MMS.

List of recordings

Select **Menu** > *Media* > *Voice recorder* > *Recordings list*. The list of folders in the *Gallery* is shown. Open *Recordings* to see the list with recordings.

■ Organizer



Alarm clock

You can set the device to sound an alarm at a desired time.

Select **Menu** > *Organizer* > *Alarm clock*.

To set the alarm, select *Alarm time*, and enter the alarm time. To change the alarm time when the alarm time is set, select *On*. Select *Repeat alarm* to set the device to alert you on selected days of the week.

Select *Alarm tone* and the default alarm tone. To customize the alarm tone, select one from the ringing tone list or from *Gallery*.

When the alarm time expires, the device sounds an alert tone and flashes *Alarm!* and the current time on the display, even if the device is switched off. Select **Stop** to stop the alarm. If you let the device continue to sound the alarm for a minute or select **Snooze**, the alarm stops for about 10 minutes, then resumes.

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you Select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless device use may cause interference or danger.

Calendar

Select **Menu** > *Organizer* > *Calendar*.






The current day is indicated by a frame. If there are any notes set for the day, the day is in bold type. To view the day notes, select **View**. To view a week, select **Options** > *Week view*. To view a single note, select **View**.

Other options for the calendar view may be options for creating a note; deleting, editing, moving, and repeating a note; copying a note to another day; or sending a note directly to another compatible device as a note, text message, or a multimedia message.

In *Settings* you can set the date, time, time zone, date and time format, and the first day of the week. In the *Auto-delete notes* option you can set the device to delete old notes automatically after a specified time.


To delete all notes in the calendar, select the month or week view and **Options** > *Delete all notes*.

Make a calendar note

Select **Menu** > *Organizer* > *Calendar*. Scroll to the date you want, and select **Options** > *Make a note*. Select one of the following note types:  *Meeting*,  *Call*,  *Birthday*,  *Memo*, or  *Reminder*.

Calendar note alarms

The device must be turned on to sound a calendar note alarm tone. If you want to set an alarm that will sound while the device is turned off, see "Alarm clock," page 49.

When the device sounds an alarm for a calendar note, the device beeps, and displays the note. To call a displayed number (when a call note,  appears on the display), select *Call*. To stop the alarm and view the note, select **View**. Select **Snooze**, and the device sounds an alarm again after 10 minutes. To stop the alarm without viewing the note, select **Exit**.

To-do list

You can save a note for a task that you have to do, select a priority level for the note, and mark it as done when you complete it. You can sort the notes by priority or by date.

Select **Menu** > *Organizer* > *To-do list*.

Select **Add note** to make a note. Enter the note, and select **Save**. Select the priority for the note. The device automatically sets the deadline without an alarm for the note. To change the deadline, view the note, and select the deadline option.

Scroll to a note and select **View** to read the note. Select **Options** to add a new note, delete a selected note, delete all the notes that you have marked as done, sort the notes by priority or by deadline, send a note to another device, save a note as a calendar note, or access the calendar. While viewing a note, you can also select an option to edit the selected note, edit the deadline or priority for the note, or mark the note as done.

Notes

You can use this application for writing and sending notes to compatible devices by MMS.

Select **Menu** > *Organizer* > *Notes*. The device will ask you to set the date and time, if they have not already been set when you start to write a note. To add a note, select **Add note** or **Options** > *Make a note*. Enter the note, and select *Save*; or scroll to a note, and select **View** or select **Options** to see the options for notes.

Synchronization

Synchronization allows you to save your calendar and contacts data on a remote Internet server (network service) or on a compatible PC. If you have saved data on the remote Internet server, you can synchronize your device by starting the synchronization from your device. You can also synchronize the data in the contacts list, calendar, and notes of your device to correspond to the data of your compatible PC by starting the synchronization from your PC.

The contact data in your SIM card will not be synchronized.

Synchronize from your device

Before synchronizing from your device, you need to subscribe to a synchronization service and get the configuration settings from your service provider. For more information on availability and the synchronization service settings, contact your service provider.

To start the synchronization from your device, do the following:

1. Activate the connection settings you need for the synchronization. See "Settings," page 51.
2. Select **Menu** > *Organizer* > *Synchronization* > *Server sync*. Select *Data to be synchronized*, mark the data to be synchronized, and select **Done** > *Synchronize*.

The marked data of the active set will be synchronized after confirmation.

Settings

You may receive the synchronization settings for your device as a configuration message from the service provider. For more information on availability and the synchronization service settings, contact your service provider. To enter the settings manually, see "Configuration settings," page 45.

Select **Menu** > *Organizer* > *Synchronization* > *Server sync* > *Sync settings* > *Configuration* and the service provider whose settings you would like to activate. Select *Account* to see the accounts provided by the service provider. If more than one account is displayed choose the one you want to use.

Synchronize from your compatible PC

You must use a data cable to connect your device to a PC to synchronize contacts, the calendar, and the notes from your PC. To view compatible data cables, see "Enhancements," page 64. You also need the PC Suite software of your device installed on the PC. Start the synchronization from the PC using PC Suite.

Verify that the device is in the standby mode and that the time and date are set.

■ Applications



Games and applications

Your device software may include some games and Java applications specially designed for this Nokia device.

Launch a game or an application

Select **Menu** > *Applications* > *Games* > *Select game or Collection* > *Select application*. Scroll to a game or an application, and select **Open**.

The following options may be available for games and applications:

Delete—Delete the game or application from the device.

Details—Give additional information about the game or application.

Update version—Check if a new version is available for download from the services (network service).

Web page—Provide further information or additional data from an Internet page. This feature needs to be supported by the network.

App. access—Restrict the game or application from accessing the network to prevent you from accruing unexpected costs.

Game and application downloads

Your device supports J2ME Java applications. Make sure that the application is compatible with your device before downloading it.

Select **Menu** > *Applications* > *Games* > *Game downloads or CollectionApp. downloads*. The list of available bookmarks is shown. Select *More bookmarks* to access the list of bookmarks in the *Web* menu. See "Bookmarks," page 58.

Select a bookmark to connect to the desired service. For the availability of different services, pricing, and tariffs, contact your service provider.



Important: Only install and use applications and other software from sources that offer adequate security and protection against harmful software.

Downloaded applications may be saved in the *Games* menu instead of the *Applications* menu.

Game settings

Select **Menu** > *Applications* > *Games* > *App. settings* to set sounds, lights, and shakes for games.

Memory status for games and applications

To view the amount of memory available for game and application installations (third shared memory), select **Menu** > *Applications* > *Games* or *Collection* > *Memory*.

Calculator

The calculator in your device adds, subtracts, multiplies, divides, calculates the square and the square root, and converts currency values.

1. Select **Menu** > *Applications* > *Extras* > *Calculator*.
2. When 0 is displayed on the screen, enter in the first number in the calculation.
Select # for a decimal point.
3. Select **Options** > *Add, Subtract, Multiply, Divide, Square, Square root, or Change sign*.
4. Enter the second number.
5. To get the answer, select **Equals**.
6. To start a new calculation, select and hold **Clear**.

This calculator has limited accuracy and is designed for simple calculations.



Note: When you change base currency, you must enter the new rates because all previously set exchange rates are reset to zero.

Perform a currency conversion

1. Select **Menu** > *Applications* > *Extras* > *Calculator*.
2. To save the exchange rate, select **Options** > *Exchange rate*.
3. Select either of the displayed options.
4. Enter the exchange rate, select # for a decimal point, and select **OK**.
The exchange rate remains in the memory until you replace it with another one.
5. To perform the currency conversion, enter the amount to be converted, and select **Options** > *To home* or *To foreign*.

Countdown timer

Select **Menu** > *Applications* > *Extras* > *Countdown timer*. Enter the alarm time in hours, minutes, and seconds, and select **OK**. You can write your own text to be displayed when the time expires, and select **Start** to start the countdown timer.

To change the countdown time, select *Change time*. To stop the timer, select *Stop timer*.

If the alarm time is reached when the device is in the standby mode, the device sounds a tone and flashes the note text if it is set; otherwise, it flashes the text *Countdown completed*.

To stop the alarm, select any key. If no key is selected, the alarm automatically stops within 30 seconds. To stop the alarm and delete the note text, select **Exit**.

Stopwatch

You can use the stopwatch to measure time, take intermediate times, or take lap times.

Time observation and time splitting

Select **Menu** > *Applications* > *Extras* > *Stopwatch* > *Split timing*. Select **Start** to start the time observation. Select **Split** every time you want to take an intermediate time; the intermediate times are listed below the running time on the display.

Select **Stop** to stop the time observation. To save the times, select **Save**. Select **Options** to start the time observation again or reset the times without saving.

Lap times

Select **Menu** > *Applications* > *Extras* > *Stopwatch* > *Lap timing*. Select **Start** to start the time observation and **Lap** to take a lap time. Select **Stop** to stop the lap timing. To save the times, select **Save**, and enter a name. Select **Options** to save or reset the lap times.

Device features while timing

If you have already started the stopwatch and want to use other device features while the stopwatch continues to run, select *End* to return to the standby mode. To return to the stopwatch, select **Menu** > *Applications* > *Extras* > *Stopwatch* > *Continue*.

Using the stopwatch or allowing it to run in the background when using other features increases the demand on battery power and reduces battery life.

View and delete times

Select **Menu** > *Applications* > *Extras* > *Stopwatch*.

If the stopwatch is not reset, you can select *Show last time* to view the most recent measured time. Select *View times* to select from a list of names or final times of the time sets.

To delete the saved times, select *Delete times*. Select *Delete all*, and select **OK**; or select *One by one*, scroll to the times you want to delete, and select **Delete** > **OK**.

Wallet

In *Wallet* you can save personal information such as credit card numbers and addresses. The data saved in the wallet can easily be retrieved to automatically fill in data fields when making purchases while browsing, as long as the service supports wallet functionality. You can also save access codes to mobile services that request a user name and password.

If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. To empty the cache, see "Cache memory," page 60.

Set wallet code

The data in the wallet is protected with a wallet code that you can define when you access the wallet for the first time. At *Create wallet code*; enter the code, and select **OK** to confirm it. At *Verify wallet code*; enter the code again, and select **OK**.

Delete wallet content

If you want to delete all the content of the wallet along with the wallet code, enter *#7370925538# in the standby mode. You also need the device security code (see "Access codes," page 23).

Wallet menu

You can set up your personal information by using the wallet menu. To use the content of the wallet in a mobile service, access the wallet through the browser (see "Web," page 56).

To use the wallet feature, select **Menu** > *Organizer* > *Wallet*. Enter your wallet code, select **OK** and one of the following:

Wallet profiles—When you have saved your personal card details, you can combine them together into a wallet profile. You can use the profile to retrieve wallet data from different cards while browsing.

Cards—Use this option to create and save *Payment cards*, *Loyalty cards*, *Access cards*, *User info cards*, or *Address cards*. For availability of receiving card information as configuration settings, contact the card issuer or your service provider.

Tickets—Save notifications for e-tickets you have bought through a mobile service.

Receipts—Save mobile purchase receipts.

Personal notes—Save personal information, such as account numbers, passwords, codes, or notations. Personal notes are protected with the wallet PIN code. When viewing a note, select **Options** > *Send via text msg.* to copy the note as a text message; *Copy to calendar* to copy the note to the calendar as a memo; *Use detail* to extract numbers, e-mail addresses, and web addresses from a note; and *Delete* to delete the note you are viewing.

Settings—Use this option to change wallet settings. Select *Change code* to change the wallet code. Select *RFID* (RFID = radio frequency identification) to set the RFID ID with the *RFID code* and *RFID type*.

Create a wallet profile

When you have saved your personal card details, you can combine them together into a wallet profile. You can use the profile to retrieve wallet data from different cards while browsing.

1. Access the wallet, and select *Wallet profiles*.
2. To create a new wallet profile if no profile is added, select **Add new**. Otherwise, select **Options** > *Add new*.
3. Fill in the following fields, and select **Done**: *Select payment card next, Select loyalty card next, Select access card next, Select user info card next, Select billing address next, Select shipping address next, Select receipt delivery address next, Select receipt delivery method next, and Wallet profile name*.

■ Web

Your device has a browser that you can use to access various mobile Internet services.



Important: Use only services that you trust and that offer adequate security and protection against harmful software.

Check the availability of these services, pricing, and tariffs with your service provider.

With the browser you can view the services that use wireless mark-up language (WML) or extensible hypertext mark-up language (XHTML) on their pages. Appearance may vary due to screen size. You may not be able to view all the details of the Internet pages.

Access services

1. Save the service settings that are required to access the service that you want to use. See "Set-up to access a service," page 57.
2. Make a connection to the given service. See "Connect to a service," page 57.
3. Start browsing the pages of the service. See "Browse a service," page 57.
4. When you are finished browsing, end the connection to the service. See "Disconnect from a service," page 58.

Set-up to access a service

Your device may already have some service settings stored. Additional settings may be received as a configuration message from the service provider that offers the service you want to use. For more information and for the appropriate settings, contact your service provider. See also "Configuration settings," page 45.

Connect to a service

Make sure that the service settings of the service you want to use are activated. To activate the settings, select **Menu** > *Web* > *Settings* > *Configuration settings*. Select *Configuration* and the configuration setting you want to activate. Connect to the service by one of the following methods:

To open the homepage of the service provider, select **Menu** > *Web* > *Home*, or in the standby mode, select and hold 0.



To open a bookmark of the service, select **Menu** > *Web* > *Bookmarks* and a bookmark. If the bookmark does not work with the current active service settings, activate another set of service settings and try again.

To access the last URL, select **Menu** > *Web* > *Last web addr.*

Enter the address of the service, select **Menu** > *Web* > *Go to address*, enter the address of the service, and select **OK**.

Browse a service

After you have connected to the service, begin to browse its pages. The function of the device keys may vary in different services. Follow the text guides on the device display. For more information, contact your service provider.

If *GPRS* is selected as the data bearer  is shown on the top left of the display during browsing. If you receive a call or a text message, or make a call during a GPRS connection,  will be shown on the top left of the display to indicate that the GPRS connection is suspended (on hold). After a call the device tries to reconnect the GPRS connection. See also "GPRS and EGPRS," page 44.

If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. To empty the cache, see "Cache memory," page 60.

Device keys while browsing

Use any of the scroll keys to browse through the page.

To select a highlighted item, select *Call*, or select **Options** and the option to open the link.

To enter letters and numbers, press 1–9. To enter special characters, press *.

Direct calling

While browsing, you can make a voice call, send touch tones while a voice call is in progress, and save a name and a phone number from a page.

Disconnect from a service

To quit browsing and end the connection, select **Options** > *Quit* > *Quit browsing?* > **Yes**.

To disconnect, press and hold *End*.

Appearance settings for the browser

While browsing, select **Options** > *Other options* > *Appear. settings*; or in the standby mode, select **Menu** > *Web* > *Settings* > *Appearance settings* and the following:

Text wrapping—Select *On* and the text continues on the next line. If you select *Off*, the text will be abbreviated.

Font size—Choose a size.

Show images—Select *No* and any pictures appearing on the page are not shown.

Alerts—Select *Alert for unsecure connection* > *Yes* to set the device to alert when a secure connection changes to an insecure one during browsing. Select *Alert for unsecure items* > *Yes* to set the device to alert when a secure page contains an insecure item. These alerts do not guarantee a secure connection. For more information, see "Browser security," page 60.

Character encoding—Select the character set that the device uses for showing browser pages that do not include that information or to select whether to always use UTF-8 encoding when sending a Web address to a compatible device.

Cookies

A cookie is data that a site saves in the cache memory of the browser (for example, your user information or your browsing preferences). Cookies are saved until you clear the cache memory. See "Cache memory," page 60.

While browsing, select **Options** > *Other options* > *Security* > *Cookie settings*; or in standby mode, select **Menu** > *Web* > *Settings* > *Security settings* > *Cookies*. Select *Allow* or *Reject* to allow the device to or prevent the device from receiving cookies.

Bookmarks

You can save page addresses as bookmarks in the device memory.

1. While browsing, select **Options** > *Bookmarks*; or in the standby mode, select **Menu** > *Web* > *Bookmarks*.

2. Scroll to the bookmark that you want to use, and select **Select** to make a connection to the page associated with the bookmark; or select **Options** to view the title and the address of the selected bookmark, edit or delete the selected bookmark, send it directly to another device as a bookmark or text message, or create a new bookmark.

Your device may have some bookmarks loaded for sites not affiliated with Nokia. Nokia does not warrant or endorse these sites. If you choose to access them, you should take the same precautions for security or content as you would with any Internet site.

Receive a bookmark

When you have received a bookmark (sent as a bookmark) *1 bookmark received* is displayed. Select **Show** to view the bookmark. To save the bookmark, select **Save**; or select **Options** > *View* to see the details or *Delete* to discard it.

Download

To download more tones, graphics, games, videos, themes, or applications to your device (network service), select the type of download to receive.



Important: Only install and use applications and other software from sources that offer adequate security and protection against harmful software.

For the availability of different services, pricing, and tariffs, contact your service provider.

Service inbox

The device can receive service messages (pushed messages) from your service provider (network service). Service messages are notifications of news headlines, and they may contain a text message or an address of a service.

When you receive a service message in the standby mode, you have the following options:

To access the message, select **Show**.

To move the message to the *Service inbox*, select **Exit**.

To access the message later, select **Menu** > *Web* > *Service inbox*.

To access the message while browsing, select **Options** > *Other options* > *Service inbox*.

To activate the browser and download marked content, select **Retrieve**.

To display detailed information on a service notification, select **Options** > *Details*.

To delete information on a service notification, select **Options** > *Delete*.

Service inbox settings

Select **Menu** > *Web* > *Settings* > *Service inbox settings* and one of the following:

Service messages—Select *On* or *Off* to set the device to receive or not receive service messages.

Message filter—Select *On* to set the device to receive service messages only from content authors approved by the service provider. To view the list of the approved content authors, select *Trusted channels*.

Automatic connection—If you set the device to receive service messages and select *On*, the device automatically activates the browser from the standby mode when the device receives a service message. If you select *Off*, the device activates the browser when it receives a service message, but only after you select *Retrieve*.

Cache memory

A cache is a memory location that is used to temporarily store data. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. The information or services you have accessed are stored in the cache. To empty the cache while browsing, select **Options** > *Other options* > *Clear the cache*; or in standby mode, select **Menu** > *Web* > *Clear the cache*.

Browser security

Security features may be required for some services, such as banking services or online shopping. For such connections, you need security certificates and possibly a security module, which may be available on your SIM card. For more information, contact your service provider.

Security module

The security module can contain certificates as well as private and public keys. The purpose of the security module is to improve security services for applications requiring browser connection. It allows you to use a digital signature. The certificates are saved in the security module by the service provider. See also "Access codes," page 23.

Select **Menu** > *Web* > *Settings* > *Security settings* > *Security module settings* and one of the following:

Security module details—Show the security module title, status, manufacturer, and serial number.

Module PIN request—Set the device to request the module PIN when using services provided by the security module. Enter the code, and select *On*. To disable the module PIN request, select *Off*.


Change module PIN—Change the module PIN, if allowed by the security module. Enter the current module PIN code; then enter the new code twice.

Change signing PIN—Select the signing PIN that you want to change. Enter the current PIN code; then enter the new code twice.

Certificates

There are three kinds of certificates:

Server certificates—Used by the device to create a connection with improved security to the content server. The device receives the server certificate from the service provider before the connection is established, and its validity is checked using the authority certificates saved in the device. Server certificates are not saved.

The security indicator  is displayed during a connection if the data transmission between the device and the content server is encrypted.

The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.

Authority certificates—Used by some services, such as banking services, for checking the validity of other certificates. Authority certificates can either be saved in the security module by the service provider, or they can be downloaded from the network if the service supports the use of authority certificates.

User certificates—Issued to users by a certifying authority. User certificates are required (for example, to create a digital signature). They associate the user with a specific private key in a security module.




Important: Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available. Certificates have a restricted lifetime. If *Expired certificate* or *Certificate not valid yet* are shown, even if the certificate should be valid, verify that the current date and time in your device are correct.

Before changing any certificate settings, you must make sure that you trust the owner of the certificate and that the certificate belongs to the listed owner.

Digital signature

You can make digital signatures with your device if your SIM card has a security module. The signature can be traced back to you by the private key on the security module and the user certificate that was used to perform the signature. To use the digital signature, can be the same as signing your name to a paper bill, contract, or other document. See also "Security module," page 60.

To make a digital signature, select a link on a page, such as the title of the book that you want to buy and its price. The text to sign (possibly including amount, date, etc.) will be shown.

Verify that the header text is *Read* and that the digital signature icon  is shown.



Note: If the digital signature icon does not appear, there is a security breach, and you should not enter any personal data such as your signing PIN.

To sign the text, read all of the text first; then you can select **Sign**.

The text may not fit within a single screen. Therefore, make sure to scroll through and read all of the text before signing.

Select the user certificate you want to use. Enter the signing PIN, and select **OK**.

The digital signature icon will disappear, and the service may display a confirmation of your purchase.

■ SIM services



In addition to the functions available on the device, your SIM card may provide services that you can access in this menu item, which is shown only if it is supported by your SIM card. The name and contents of the menu depend on the SIM card.

For availability, rates, and information on using SIM services, contact your SIM card vendor, for example, the service provider or other vendor.

Depending on the operator, you can set the device to show you the confirmation messages sent between your device and the network when you are using the SIM services. Select **Menu > Settings > Phone settings > Confirm SIM service actions > Yes**.

Accessing these services may involve sending messages or making a call for which you may be charged.

8. PC connectivity

You can access the Internet when you use a data cable to connect your device to a compatible PC. You can use a variety of PC connectivity and data communications applications with your device. For example, with PC Suite you can synchronize contacts, calendar, and notes between your device and the compatible PC or a remote Internet server (network service).

You may find more information and downloadable files, including PC Suite, in the support area on the Nokia website www.nokia.ca.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

■ PC Suite

PC Suite allows you to transfer and synchronize information between your device and your PC. With PC Suite, you can edit contacts in your device, install J2ME Java applications (such as games and dictionaries) from a compatible PC to the device, and backup and restore personal data between your device and a compatible PC. To see the comprehensive features offered by PC Suite, you can download the application from the Nokia website www.nokia.ca.

■ GPRS, EGPRS, HSCSD, and CSD

You can use the following data services with your device:

- GPRS (general packet radio service)
- EGPRS (enhanced GPRS) (See "GPRS and EGPRS," page 44.)
- HSCSD (high-speed circuit switched data)
- CSD (circuit switched data)—or GSM data

For availability and subscription to data services, contact your service provider.

Use of HSCSD services consumes the battery faster than normal voice or data calls.

You may need to connect the device to a charger for the duration of the data transfer.

■ Data communication applications

For information on using a data communication application, refer to the documentation provided with it.

Making or answering calls during a computer connection is not recommended because it might disrupt the operation.

For better performance during data calls, place the device on a stationary surface with the keypad facing downward. Do not move the device by holding it in your hand during a data call.

9. Enhancements

If you want to enhance device functionality, a range of enhancements is available for you. You can select any of these items to help accommodate your specific communication needs. For availability of these and other enhancements, contact your dealer.



Check the model number of any charger before use with this device. This device is intended for use when supplied with power from AC-1U or ACP-12U.



Warning: Use only batteries, chargers and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous. For availability of approved enhancements, please check with your dealer.

Your device and its enhancements may contain small parts. Keep them out of reach of small children.

A few practical rules about accessories and enhancements:

- Keep all accessories and enhancements out of the reach of small children.
- When you disconnect the power cord of any accessory or enhancement, grasp and pull the plug, not the cord.
- Check regularly that enhancements installed in a vehicle are mounted and are operating properly.
- Installation of any complex car enhancements must be made by qualified personnel only.

■ Power

- Battery, 760 mAh, Li-ion (BL-5B)
- Travel chargers (ACP-12U)
- Compact travel charger (AC-1U)

■ Data

- Connectivity Adapter Cable (DKU-5)
- Connectivity Adapter Cable (CA-42)

■ Audio

- Wireless Voice Adapter (AD-5B)
- Wireless Headset (HS-4W), requires AD-5B
- Wireless Headset (HS-11W), requires AD-5B
- Wireless Clip-on Headset (HS-21W), requires AD-5B
- Wireless Headset (HDW-3), requires AD-5B
- Headset (HS-5)
- Boom Headset (HDB-4)
- Boom Headset (HDB-5)
- Retractable Headset (HS-10)
- Activity Headset (HS-8)
- Fashion Stereo Headset (HS-3)

■ Accessibility

- Loopset (LPS-4)
- Phone adapter (HDA-10)

■ Car

- Headrest Handsfree (BHF-3)
- Plug-in Handsfree (HF-3)
- Mobile Holder (CR-23)
- Advanced Car Kit (CK-7W)
- Basic Car Kit (CK-10)
- Mobile charger (LCH-12)

■ Imaging and lifestyle

- Image Album (PD-1)

10. Reference information

■ Battery information

Charging and discharging

Your device is powered by a rechargeable battery. The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, replace the battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery and its ability to charge. Always try to keep the battery between 59°F and 77°F (15°C and 25°C). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire, as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

Nokia battery authentication guidelines

Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery, purchase it from an authorized Nokia dealer, look for the Nokia Original Enhancements logo on the packaging, and inspect the hologram label using the following steps.

Successful completion of the four steps is not a total assurance of the authenticity of the battery. If you have any reason to believe that your battery is not an authentic original Nokia battery, you should refrain from using it and take it to the nearest authorized Nokia service point or dealer for assistance. Your authorized Nokia service point or dealer will inspect the battery for authenticity. If authenticity cannot be verified, return the battery to the place of purchase.

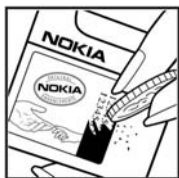
How do you check the security features on batteries with hologram labels?



1. When looking at the hologram label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.



2. When you angle the hologram to the left, right, down, and up sides of the logo, you should see 1, 2, 3, and 4 dots on each side, respectively.



3. Scratch the side of the label to reveal a 20-digit code, for example, 12345678919876543210. Turn the battery so that the numbers are facing upwards. The 20-digit code reads starting from the number at the top row followed by the bottom row.
4. Confirm that the 20-digit code is valid by verifying it at the Nokia website. Go to www.nokia.com/batterycheck and follow the instructions.

You should receive a message indicating whether the code can be authenticated.

What if your battery is not verified as authentic?

If you cannot confirm that your Nokia battery with the hologram label is an authentic Nokia battery, please do not use the battery, but take it to the nearest authorized Nokia service point or dealer for assistance. The use of a battery that is not approved by the manufacturer may be dangerous and may result in poor performance and damage to your device and its enhancements. It may also invalidate any approval or warranty applying to the device.

To find out more about original Nokia batteries visit www.nokia.com/battery.

■ Additional safety information

Operating environment

Remember to follow any special regulations in force in any area and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 2.2 cm (7/8 inch) away from the body. When a carry case, belt clip, or holder is used for body-worn operation, it should not contain metal and should position the device at least 2.2 cm (7/8 inch) away from your body.

In order to transmit data files or messages, this device requires a quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure the above separation distance instructions are followed until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with a hearing aid should not hold the device to the ear with the hearing aid. Always secure the device in its holder, because metallic materials may be attracted by the earpiece. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Your device and its enhancements may contain small parts. Keep them out of reach of small children.

Medical devices

Operation of any radio transmitting equipment, including wireless devices, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device 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.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 15.3 cm (6 inches) be maintained between a wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. To minimize the potential for interference, persons with pacemakers should

- Always keep the device more than 15.3 cm (6 inches) from their pacemaker when the device is switched on

- Not carry the device in a breast pocket
- Hold the device to the ear opposite the pacemaker

If you have any reason to suspect that interference is taking place, switch off your device immediately.

Hearing aids

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your hearing aid provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, air bag systems. For more information, check with the manufacturer or its representative of your vehicle or any equipment that has been added.

Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that an air bags inflate with great force. Do not place objects, including installed or portable wireless equipment 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.

Airplanes

Using your device while flying may be prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, may disrupt the wireless teledevice network, and may be illegal.

Failure to observe these instructions may lead to suspension or denial of teledevice services to the offender, legal action, or both.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas, chemical plants or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

■ Emergency calls



Important: Wireless devices, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

To make an emergency call, do the following:

1. If the device is not on, switch it on. Check for adequate signal strength. For SIM card devices, add Some networks may require that a valid SIM card is properly inserted in the device.
2. Select the *End* key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Select the *Call* key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider. When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

■ Certification information (SAR)

THE NOKIA 6020 DEVICE MEETS GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your mobile device is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radio frequency (RF) energy recommended by international guidelines (ICNIRP). These limits 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 and guidelines include a substantial safety margin designed to assure the safety of the public, regardless of age and health and to account for any variations in measurements.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the international guidelines is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be well below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value when tested according to international testing procedures for use at the ear for device type RM-30 is 0.52 W/kg and for device type RM-31 is 0.50 W/kg. Your device's type is listed on the label located under the battery.

SAR values may vary depending on national reporting and testing requirements and the network band. Use of device accessories and enhancements may result in different SAR values. Additional SAR information may be provided under product information at www.nokia.com.

USA and Canada: The SAR limit of USA (FCC) and Canada (IC) is 1.6 W/kg averaged over one gram of tissue. Device type RM-30 has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.54 W/kg and when properly worn on the body is 0.58 W/kg. Device type RM-31 has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.80 W/kg and when properly worn on the body is 0.60 W/kg. Information about these devices can be found on the FCC's website at <<http://www.fcc.gov/oet/fccid>> by searching the equipment authorization system using FCC ID: PPIRM-30 and PPIRM-31.

■ Technical information

Feature	Specification
Weight	90 g (3.2 oz) with BL-5B Li-Ion Battery
Size	Volume: 76 cm ³ (4.6 in ³) Length: 106 mm (4.2 in) Width: 44 mm (1.7 in) Thickness: 20 mm (0.8 in)
Frequency range	GSM 850 824–894 MHz (TX) 869–894 Mhz (RX) GSM 900 880–915 MHz (TX) 925–960 MHz (RX) GSM 1800 1710–1785 MHz (TX) 1805–1865 MHz (RX) GSM 1900 1850–1910 MHz (TX) 1930–1990 MHz (RX)
Transmitter output power	Up to 2 W
Battery voltage	3.7 V dc
Number of channels	299
Memory size	16 MB flash memory 3 MB RAM
Operating temperature	15°C to + 25°C (59°F to + 77°F)

Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you protect your warranty coverage and enjoy your device for many years.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses (such as camera, proximity sensor, and light sensor lenses).
- Use chargers indoors.
- Always create a backup of data you want to keep (such as contacts and calendar notes) before sending your device to a service facility.

All of the above suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

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