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2 Legal notices

Legal notices

The mobile phone described in this guide is approved for use on the GSM and GPRS networks operating on the GSM 850, 1800 (DCS/PCN) and 1900 (PCS) bands. It is approved for use in the country where it was originally sold and may be approved for use in other countries.

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Disclaimer

THE INFORMATION CONTAINED IN THE USER GUIDE IS WRITTEN FOR THE CF76 PHONE. SIEMENS RESERVES THE RIGHT TO MAKE CHANGES AND IMPROVEMENTS TO THE PRODUCTS AND ANY OF THE FEATURES OF THE PRODUCTS DESCRIBED IN THIS DOCUMENT WITHOUT PRIOR NOTICE. THE CONTENTS OF THE USER GUIDE ARE PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAW, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY, RELIABILITY OR CONTENTS OF THIS DOCUMENT. SIEMENS RESERVES THE RIGHT TO REVISE THE USER GUIDE OR WITHDRAW IT AT ANY TIME WITHOUT PRIOR NOTICE. UNDER NO CIRCUMSTANCES SHALL SIEMENS BE RESPONSIBLE FOR ANY LOSS OF DATA OR INCOME OR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES HOWSOEVER CAUSED.

Export Information

The mobile phone may be subject to export regulation of the United States and other countries. Diversion contrary to law is prohibited. You must comply with all applicable export laws, restrictions and regulations of the United States foreign agencies or authorities, and may not export, or transfer for the purpose of re-export, the mobile phone or any part of the phone in violation of any applicable restrictions, laws or regulations, or without all necessary approvals.

Network Services

A number of features included in this guide are called Network Services. They are special services provided by wireless service providers. In order to use any of these Network Services, you must subscribe to these service(s) from your service provider and obtain instructions for their use. Some of these Network Services may not be available when roaming on a network other than your home network.

Standby and Talk Time Information

The mobile phone incorporates features that are new to the mobile phone world. These may include color displays and lighting, graphic games, music reproduction and browsing the Internet. The way you use the display and the features will affect the performance of the battery and how long it lasts between charge cycles. The quoted standby times and talk times show the minimum and maximum per-

formance that can be expected from the battery under normal network conditions and with the default settings as set by the factory. However, playing games (particularly with the backlight continuously switched on) and listening to music will shorten the time available for standby and to make and receive telephone calls. Operation times also vary depending on network conditions, SIM settings, charging and battery condition, how you use your phone and other factors.

Memory

The mobile phone contains an internal memory device that stores the software required to operate the mobile phone, communicate with the GSM/GPRS network and provide the user interface. Some features in the internal memory run additional devices and some additional games and utilities. The amount of memory available in the mobile phone is finite and may be insufficient to store large numbers of applications and files.

Warning!

Remember to back up your data and to do so frequently. Always back up all data and programs before sending the mobile phone in for repair.

Safety precautions

Information for parents

Please read the operating instructions and safety precautions carefully before use.

Explain the content and the hazards associated with using the phone to your children.



Remember to comply with legal requirements and local restrictions when using the phone. For example in aeroplanes, petrol stations, hospitals or while driving.



Cellular phones can interfere with the functioning of medical devices such as hearing aids or pace-makers. Keep at least 9 inches (20 cm) between phone and pace-maker. When using the cell phone hold it to the ear which is farthest from the pacemaker. For more information consult your doctor.



The ringtone (p. 32), info tones (p. 33) and speakerphone talking are reproduced through the loud-speaker. Do not hold the phone to your ear when it rings or when you have switched on the speakerphone function (p. 19). Otherwise you risk serious, permanent damage to your hearing.



Only use original Siemens batteries (100% mercury-free) and – charging devices. Otherwise you risk serious damage to health and property. The battery could explode, for instance.



Small parts such as the SIM card, sealing stop, lens ring and lens cap can be dismantled and swallowed by small children. The phone must therefore be stored out of the reach of small children.



The mains voltage specified on the power supply unit (V) must not be exceeded. Otherwise the charging device may be destroyed.

The power supply must be plugged into an easily accessible AC mains power socket when charging the battery. The only way to turn off the charging device after charging the battery is to unplug it.



Do not use a handheld while driving.



Do not look at the LED (e.g. activated infrared port, flash LED) with optical magnifiers because of the risk of radiation.

This product complies with IEC/EN 60825-1 2 2 Safety of Laser Products2 for LED Class 1M products; such products are safe under reasonably foreseeable operating conditions.



Do not place the phone near to electromagnetic data carriers such as credit cards and floppy disks. Information stored on them could be lost.



You may only open the phone to replace the battery (100% mercury-free) or SIM card. You must not open the battery under any circumstances. All other changes to this device are strictly prohibited and will invalidate the guarantee.

Safety precautions

5

Important



Please dispose of unwanted batteries and phones as permitted by the laws in your country.



The phone may cause interference in the vicinity of TV sets, radios and PCs.



Use only Siemens original accessories. This will avoid potential risks to health or property and ensure compliance with all relevant regulations.

Improper use will invalidate the guarantee!
These safety instructions also apply to Siemens original accessories.

Product attributes are subject to changes in technology, design and availability. Siemens reserves the right to modify products without prior notice.

This cellular phone offers a range of functions, it can be used in positions other than the head, such as on the body. In this case, separation distance of **1.5 cm** is required. When a carry case, belt clip or holder is used for body-worn operation, it should not contain metal and should position the device the above-stated distance from your body.

Important

Read this information before using your wireless handheld phone.

As this mobile phone is equipped with a fixed (non-retractable) antenna, some paragraphs in the text below may not be applicable.

Antenna care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone operation

Normal position

Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on efficient operation

For your phone to operate most efficiently:

- Extend your antenna fully (if applicable).
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

PoC Operation

Depending on the service options offered by your service provider, you may be able to use the CF76 phone as a two-way radio (push-and-talk over cellular "PoC" mode).

In order to maintain compliance with FCC RF exposure guidelines while using the CF76 phone in PoC mode, the phone must be held in a vertical position at least one inch (2.54 cm) from the lips.

Driving

Laws pertaining to the use of mobile phones while driving vary significantly from state to state and sometimes even from locality to locality within states. For example, some areas may allow persons to use their mobile phones only if they employ a hands-free device, and some areas may prohibit the use of cell phones entirely. Accordingly, Siemens recommends that persons check the laws for the areas in which they drive or will be driving. For areas where the use of mobile phones while driving is permitted, Siemens encourages persons to use their phones responsibly and to employ hands-free devices. Also, if using your phone while driving, please:

- Give full attention to driving – driving safely is your first responsibility;
- Use hands-free operation, if available;
- Pull off the road and park before making or answering a call, if driving conditions so require.

For vehicles equipped with air bags

An air bag inflates with great force. DO NOT place objects, including either 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.

Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers' Association recommends that a minimum separation of six inches (6") be maintained between a handheld wireless phone 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.

Persons with pacemakers

- should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- should not carry the phone in a breast pocket;
- should use the ear opposite the pacemaker to minimize the potential for interference;
- should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

Hearing aids

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

Other medical devices

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

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

Safety precautions

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Vehicles

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

Posted facilities

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

Airplanes

FCC and Airline Regulations prohibit using your phone while in the air. Turn your phone OFF when requested by the airline. Check and comply with the policy of your airline regarding the use of your phone while the airplane is on the ground.

Blasting areas


To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Potentially explosive atmospheres

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Emergency calls (SOS)

Your wireless phone can be used to make emergency calls. You can make an emergency call from the main display screen. Enter the local emergency number such as 911 and then press the  key.

This phone, like any wireless phone, operates using radio signals, wireless and landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore, you should never rely solely on any wireless phone for essential communications (for example, medical emergencies). Remember – to make or receive any calls, the phone must be switched on and be used in a service area that has adequate signal strength. Emergency calls might not be possible on all wireless phone networks or when certain network services or phone features are in use. Check with local service providers regarding their network features.

Always make certain that your phone is properly charged before attempting any emergency calls. If you allow your battery to discharge, you will be unable to receive or make calls, including emergency calls. You must then wait a few minutes after the charging begins to place any emergency calls.

When making an emergency call, remember to give all of the necessary information as accurately as possible. Remember that your wireless phone might be the only means of communication at the scene of an accident, therefore you should not terminate the call until given permission to do so.

Batteries and Chargers

Only use original Siemens batteries (100% mercury-free) and charging devices. Use of non-Siemens batteries and/or charging devices may cause explosion resulting in serious injury and/or property damage. Use original Siemens accessories in order to avoid possible injury and property damage and to ensure compliance with applicable laws and regulations. Improper use invalidates the warranty.

Battery safety precautions

To reduce the risk of fire, injury or electric shock, and to properly dispose of batteries, please read and understand the following instructions. CONTAINS LITHIUM-ION OR NICKEL-METAL HYDRIDE BATTERY. BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY. DO NOT DISPOSE IN MUNICIPAL WASTE.

1. Only use the batteries specified for use with this mobile phone.
2. Do not use batteries of different sizes or from different manufacturers in this mobile phone.
3. Do not dispose of the battery in a fire; it may explode. Dispose of used batteries and phones in accordance with applicable laws and safety regulations. Do not expose battery to water. Check with local codes for special disposal instructions.
4. Do not open or mutilate the battery. Doing so may cause damage to the eyes or skin.
5. Exercise care in handling the battery in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conducting material may overheat and cause burns or fire.
6. Charge the battery provided with, or identified for use with, this product only in accordance with the instructions and limitations specified in the User's Guide. Do not attempt to charge the battery by any means other than those specified in the User's Guide.

Telephone list

① Call key

Dial phone number/name displayed/highlighted, take calls. Show last phone numbers dialed in standby mode.






② On/Off/End key

- Switched off: Press and **hold** to switch on.
- During a conversation or in an application: press **briefly** to finish.
- In menus: Press **briefly** to go back a level. Press and **hold** to go back to standby mode.
- In standby mode: Press and **hold** to switch off phone.



③ Joystick

- Press the joystick down vertically to start an application or feature (p. 14).



In standby mode

-  Open main menu.
-  Open user profiles.
-  Open Phonebook/Address book.
-  Open Main Inbox.
-  Start the camera.

In lists, messages and menus

-  Scroll up and down.
-  Back one level.

During a call

-  Set volume.
-  Call options.

④ Access to the Internet



10 Telephone list

① Softkeys

The current features of this key are shown in the bottom line of the display as **Text/symbol** (e.g.).

② Camera sidekey

In standby mode: Start the camera.
During a voice call: Increase volume.

③ PoC sidekey

In standby mode: Start the PoC.
During a voice call: Decrease volume.

④ * Ringtone

Press and **hold**

- In standby mode: Switch all audible signals on/off (except alarm).
- On incoming call: Switch off ringtone for this call only.

⑤ # Key lock

Press and **hold** in standby mode:
Switch key lock on/off.

⑥ Connection socket

⑦ Infrared interface (IrDA)

⑧ 2nd display

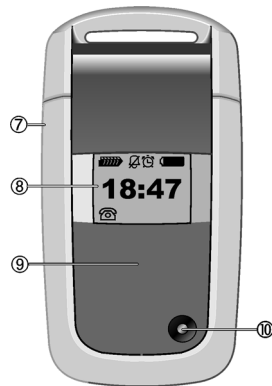
Displays time, incoming calls, screen-saver, and certain other information when the clamshell is closed.

⑨ Clamshell

⑩ Camera lens






















When Clamshell ans. (p. 33) is activated, a call can be accepted by opening the clamshell.

A call can be ended by simply closing the clamshell.

















Display symbols

Display symbols (selection)

	Signal strength
	Battery charge level, e.g. 50 %
	Phonebook/Address book
	Call records
	Surf & fun/ Service supplier portal
	Organizer
	Messages
	Camera
	Extras
	My stuff
	Setup
	All calls are forwarded
	Ringtone off
	Short ring (beep) only
	Ringtone only if the caller is stored in the Phonebook
	Alarm set
	Keypad locked
	Auto answer feature on
	Activated and available
	Browser connecting
	IrDA transmission

Events (selection)

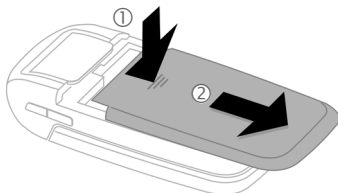
	SIM card memory full
	MMS memory full
	Phone memory full
	No network access
	Missed call
	Memory assistant
Message symbols (selection)	
	Unread
	Read
	Sent
	MMS received
	MMS with DRM contents (p. 15)
	E-mail forwarded
	E-mail with attachment
	Voice mail received

Getting started

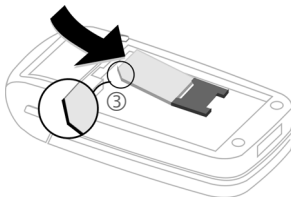
Inserting the SIM card/battery

The service provider supplies you with a SIM card on which all the important data for your line is stored. If the SIM card (Subscriber Identification Module) has been delivered in credit-card size, snap the smaller segment out and remove any rough edges.

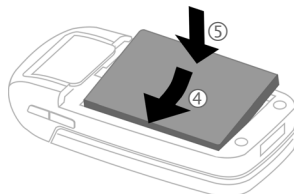
Press the grooved area ①, then push cover towards the front in the direction indicated by the arrow ②.



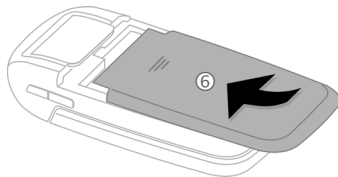
- Place the SIM card in front of the slot with the contact surface facing **downwards**. Then press the SIM card slightly to push it in ③ (ensure that the chamfered corner is in the correct position).



- Insert the battery sideways into the phone ④, then press it downwards ⑤ until it engages.

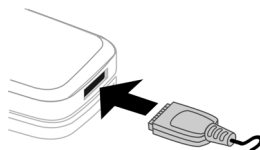



- To remove, press the retaining tab on the side of the battery, then lift the battery out.
- Place the cover in position and push it towards the front ⑥ until it clicks into place.



Charging the battery

The battery is not fully charged when delivered. Plug charger cable into the bottom of the phone, plug power supply unit into a wall outlet and charge for at least **two hours**.



When charging in progress,  is displayed.

Charging time

A discharged battery is fully charged after about 2 hours. Charging is only possible within a temperature range of +5 °C to 45 °C (41 °F to 113 °F). If the temperature rises/falls 5 °C (9 °F) above/below this range, the charge symbol flashes a warning. The line voltage specified on the power supply unit must not be exceeded.

Operating time

The operating time depends on the conditions of use. Extreme temperatures considerably reduce the phone's standby time. Avoid leaving the phone in the sun or on a heater.

Call time: 100 to 330 minutes
Stand-by time: 60 to 275 hours

Charge icon not visible

If the battery is fully discharged, the charge icon is not immediately visible when the power supply is plugged in. It will appear after up to two hours. In this case, the battery is fully charged after 3 to 4 hours.

Only use the plug-in power supply included in the delivery!

Display while in service

Charge level display during operation (empty–full): 


A beep sounds when the battery is nearly flat. The charge level of the battery is only displayed correctly after an uninterrupted charging/discharging cycle. You should therefore **not remove the battery unnecessarily** and if possible **not finish the charging process prematurely**.

The power supply unit heats up when used for long periods. This is normal and not dangerous.

If the battery is removed for longer than 30 seconds, the clock must be reset.


Switch on/off, PIN


Switching phone on and off

To switch on or off, press and hold .

Enter PIN


The SIM card can be protected with a 4- to 8-digit PIN.

Enter the PIN using the number keys. The characters **** appear to ensure nobody can read your PIN on the display. Correction with .

Confirm with . Logging on to the network will take a few seconds.

Emergency number (SOS)



Only to be used in real emergencies!


By pressing the softkey  you can make an emergency call on any network **without** a SIM card and without entering a PIN (not available in all countries).

Switching on your phone for the first time

Time/date


When switching on your phone for the first time, set the clock so that it displays the correct time. You will not have to make this setting again.

Press , then select .

First enter the date (day/month/year), then the time (24 hour clock, including seconds). Press . The time and date are updated.

Time zones

Set the time zone for your area.

Select the city in the desired time zone with .

Use  → Set time zone to save.

14 General instructions

Copying SIM addresses

The first time the SIM card is inserted, the entries on it can be copied to the Address-book. Please **do not interrupt this procedure**. During this time, **do not accept incoming calls**. Follow the instructions in the display.

You can also copy data from the SIM card at a later time.

General instructions




User guide

Menu controls

The steps needed to reach a feature are shown in a **condensed form** in the user guide, e. g. to display call list for missed calls in condensed form:

 →  → Missed calls


This comprises the following steps:

-  Open main menu.
-  Select , then feature Missed calls.

Selection Press to confirm.










Menu speed dialing

All menus are numbered, so that a feature (such as writing a new SMS) can be selected directly from standby mode by entering a number:

-  Press this key to display the main menu.
- 5** Press this key for Messages.
- 1** Press this key for Write message.
- 1** Press this key for SMS.






Symbols

The following symbols are used to explain operation:

-  Enter numbers/letters
-  On/Off/End key
-  Call key.
-  Left softkey
-  Right softkey
-  Displays a softkey feature.
-  Press the joystick vertically, e.g. to call up the menu.
-  Press the joystick in the direction indicated.
-  Feature dependent on service provider, special registration may be required.


Press joystick

The symbol in the center of the lower line of the display shows the current feature when the joystick is pressed down vertically, e.g.:

-  Display menu
-  Take photos
-  Zoom
-  Call, accept call
-  OK

Standby mode

The phone is in **standby mode** and is **ready for use** once the name of the service provider appears on the display.

By **pressing and holding** , you can return to standby mode from any situation.

Signal strength



Strong receiving signal.



A weak signal reduces the call quality and may lead to loss of the connection. Change your location.

Digital Rights Mgmt. (DRM)

Remember that your telephone has digital rights management. The use of downloaded pictures, tones or applications can be restricted by the suppliers, e.g. copy protection, use for a limited period of time only, number of times it can be used etc.

Main menu

The main menu is displayed graphically with symbols:



Call up from standby mode.



Select the application symbols.



Start an application.

Main menu options

Options Open menu.

Different features are available depending on the context:


Search	List output of the menu. Entering letters will access a feature directly.
Large letters	Choice of two font sizes.
Illumination	Set display light brighter/darker.

Standard features

Option menus

List of features appearing repeatedly in options menus.

Press **Options** to open menu.


Edit	Open the entry to edit.
View	Display entry.
Delete/ Delete all	Delete entry/delete all entries after confirmation.
New entry	Create new entry.
Send...	Select transmission service and medium for sending.
Reply/ Reply to all	The sender becomes the recipient, "Re" is placed in front of the subject matter and the received text is transferred to the new message.
Save	Store entry.
Save to 	Save recipients in the current address directory.
Sort	Set sort criteria (alphabetical, type, time).
Mark (p. 16)	Activate highlighting mode.
Text input (p. 17)	T9 preferred: Activate/deactivate T9 input. Input language: Select language for text.
Rename	Rename selected entry.
Capacity	Display memory capacity.

Attributes	Display properties of the highlighted object.
Print...	Select transmission service for printing.
Drive info	Display drive name and capacity.
Help	Display help text.

Highlighting mode

Highlight one or more entries to perform a function on it/them.

Press **Options** → Mark and select entry/entries with .

Press  to highlight or delete highlighting.

Press **Mark** to highlight a **non-highlighted** entry.

Press **Unmark** to remove the **highlighting** from a highlighted entry.

Additional highlighting features:

Press **Options** to open menu.

Mark all	Highlight all entries.
Deselect all	Delete highlighting on all marked entries.
Delete marked	All selected entries are deleted.

Security

The phone and SIM card are protected against misuse by several security codes.

Keep these confidential numbers in a safe place where you can access them again if required.


PIN code

PIN	Protects your SIM card (personal identification number).
PIN2	This is needed to set the charge detail display and to access additional features on special SIM cards.
PUK PUK2	Key code. Used to unlock SIM cards after the wrong PIN has been entered repeatedly.
Phone code	Protects your phone. Must be entered at the first security setting.

 →  →  → Security → PIN code
→ Select feature.



PIN control

The PIN is usually requested each time the phone is switched on. You can deactivate this feature but you risk unauthorized use of the phone. Some service providers do not permit deactivating the control.

Press **Change**. Enter PIN and confirm with .

Change PIN

You can change the PIN to any 4- to 8-digit number you find easier to remember.

Press **Selection**. Enter **current** PIN and confirm with . Enter **new** PIN twice and confirm each time with .

Change PIN2

(Display only if PIN 2 is available)

Proceed as with Change PIN.

Chg.phoncode

(Change phone code)

You define the phone code (4–8 digits) when you call up a phone-code protected feature for the first time (e.g. Direct call, p. 35). It is then valid for all phone-code protected features.


Following the third unsuccessful attempt, access to the phone code and the features that use it is denied. If this occurs, contact Siemens Service.

Clearing SIM card barring

If the PIN is entered incorrectly three times, the SIM card is blocked. Enter the PUK (MASTER PIN) provided with the SIM card by your service provider in accordance with the instructions. If the PUK (MASTER PIN) has been lost, please contact your service provider.

Preventing accidental activation

Even if PIN use is deactivated (p. 16) confirmation is required to switch on the phone.

Press and **hold** .

Press **OK**. The phone switches on.

Press **Cancel** or take no action. The phone does not switch on.

Connecting to PCs

You can connect your phone using IrDA or a data cable (see Accessories) to a PC. The PC program MPM (Mobile Phone Manager) enables you to back up data on your PC and to synchronize the Addressbook with Outlook®, Lotus Notes™ and other Siemens phones (as well as Gigaset). You can download the Mobile Phone Manager from the Internet at

www.siemens.com/mobilephones

Text entry

Text entry without T9

Press number key repeatedly until the required letter appears. Example:

2

Press **once briefly** to type the letter **a**, **twice** to type **b** etc. Press and **hold** to write the number.



Press **briefly** to delete the letter before the cursor, press and **hold** to erase the whole word.



Move the cursor (forwards/back).

#

Press **briefly**: Switch between **abc**, **Abc**, **T9abc**, **T9Abc**, **123**.

Press and **hold**: All inputvariants are displayed.

*

Press **briefly**: Special characters are shown.

Press and **hold**: Open input menu.

0

Press **once/repeatedly**:

., **?**, **!**, **"**, **'**, **0**, **+**, **(**, **)**, **@**, **/**, **:**, **_**

Press and **hold**: Writes **0**.

1

Enters a space.



Press **twice** = line break.

Special characters

Press *** briefly**. The character map is displayed:

1)	¿	¡	_	;	.	,	?	!
+	-	"	'	:	*	/	()
¤	¥	\$	£	€	@	\	&	#
[]	{	}	%	~	<	=	>
	^	`	§	Γ	Δ	Θ	Λ	≡
Π	Σ	Φ	Ψ	Ω				

1) Line break

Navigate to characters with ,  and press **Selection**.

Text entry menu

Press and **hold*** with text input. The input menu is displayed: Format text (SMS only), Input language, Mark, Copy/Paste.

Text input with T9

"T9" combines the correct value from the various key inputs.

Press **#** to activate/deactivate T9.


Select input language

To select the language press **Options**
→ Input language, then select language and confirm with **Selection**.

Write with T9

Since the display changes as you proceed, it is best if you finish a word without looking at the display.

Simply press the keys where the relevant letter is located **once only**.

A blank **1** or moving to the right  ends the word.

Do not use special characters such as Ä. Instead use the standard characters such as A, and T9 will do the rest for you.




Additional information

Press **briefly**: Switch between: abc, Abc, ^{T9}abc, ^{T9}Abc, 123.

Press and **hold**: All input modes are displayed.

***** Press and **hold**: Open input menu (p. 18).


T9 word suggestions






If several options are found for a word in the dictionary, the most likely is displayed first. If this word is incorrect, press    (repeatedly if necessary) until the correct word is displayed.

To add a new word to the dictionary, press **Learn**. Enter a word without T9 and press **Save**.

Correct a word

Words written **with** T9:

Using , move left or right, word by word, until the right word is **highlighted**.

Using    , scroll through the T9 word suggestions again.  deletes the character to the left of the cursor **and** displays a new possible word!

T9® Text Input is licensed under one or more of the following:
U.S. Pat. Nos. 5,818,437, 5,953,541, 5,187,480, 5,945,928 and 6,011,554;
Canadian Pat. No. 1,331,057;
United Kingdom Pat. No. 2238414B;
Hong Kong Standard Pat. No. HK0940329;
Republic of Singapore Pat. No. 51383;
Euro.Pat. No. 0 842 463 (96927260.8)
DE/DK, FI, FR, IT, NL, PT, ES, SE, GB;
and additional patents are pending worldwide.

Text modules

 →  → Text modules

Text modules can be stored in the phone for adding to your messages (SMS, MMS, e-mail).

Calling

Enter the number (always with area code/
international dialing code). Press **☎** **briefly**
to clear the last digit, a **long** press clears
the entire phone number.

To dial international dialing code press
and **hold** **0** until a "+" is displayed. Press
Country and select country.

Press **☎** to dial phone number.

End call

Press the End key **☎** **briefly** or simply
close the clamshell.

Set volume

Press **⬆** upwards/downwards or use the
sidekeys in order to adjust the volume.

Redial previous numbers

Press **☎** **twice** press to redial the phone
number **last** called:

To call up the redial list, press **☎** **once**.
Pick out a phone number with **⬆**, then
press **☎** to select it.

Auto redial

Press **Auto dial** for automatically dialing
the phone number ten times at increas-
ing time intervals.

Reminder

Press **Prompt** and a beep will remind you
to redial the displayed phone number af-
ter 15 minutes.

Accept call

Press **☎**.

**Accept the call before bringing the telephone
to your ear to avoid ear damage caused by the
ringing tones.**

When Clamshell ans. (p. 33) is activated, a
call can be answered by simply opening
the clamshell.

Reject call

Press **☎** **briefly**.

Handsfree

Press **Handsfr.** to play back via loud-
speaker.

**Always switch off "handsfree talking" before
holding the phone to your ear! Otherwise, you
might damage your hearing!**

Call options

Press **Options** to use features that are only
available **during** the call.

Switching between 2 calls



To establish a second connection, press
Options → **Hold** and dial a new phone
number. With **Options** → **Toggle** you can
switch between calls.

Incoming calls during a call

You will hear a "knocking tone" and you
can now

- Accept the waiting call and put the cur-
rent call on hold with **Toggle**.
- Reject the waiting call with **Reject** or
forward it to the mailbox with **Forward**.
- End the current call with **☎** and ac-
cept the waiting call with **☎**.

End call(s)

Press the End key **☎** and **Yes** to take call
on hold or **No** to end all calls.


Conference



You can call up to conference participants
one after the other. Once you have estab-
lished a connection:

Press **Options** → **Hold** and dial a new
phone number to establish a new con-
nection. Press **Options** → **Conference** to
open a conference. Repeat until all par-
ticipants are connected.



End

When the End key  is pressed or the clamshell is closed, all calls in the multi-party conversation are ended.

Tone sequences (DTMF)


Enter tone sequences (numbers) for remote inquiries to an answering machine with **Options** → Send DTMF.

Default book

 →  → Select feature.

Show entries

The entries in the default directory (Addressbook or Phonebook) are shown.

Select a name with the first letter and/or scroll with .

New entry


Create new entry.

Address book

Phonebook (see also p. 21)

Default book

You can set a specific directory as your preferred one to use.

The selected default book (Phonebook or Addressbook) is opened in standby mode with the joystick .

Address book

In the Addressbook, a lot of data can be recorded for each entry and additional features such as pictures, birthdays, Inst. Message can be used.

Phonebook

The Phonebook is located on the SIM card. Only one phone number can be entered per entry. The Phonebook on the SIM card can easily be transferred into a different phone.

Business card

Create your own business card to send to a different GSM-phone. If no business card has been created yet, you will be asked for your input.

Move from field to field with  to enter your details. Press **Save**.

Groups

See p. 21.



Address book

The Addressbook can store up to 1,000 entries, each with a variety of telephone and fax numbers as well as additional address details. These entries are managed separately from those in the Phonebook in the phone memory.

New entry

The Addressbook is set by default:

Open Addressbook (in standby mode).

 →  → Select input field.

Fill in input fields. At least one name must be entered. Always enter phone number with prefix. Press **Save** to save the entry.

Special input fields

Group: Allocation to a group (p. 21).

Address: Extension to enter the complete address: **Street**:, **ZIP**:, **City**:, **Country**:

Com. services

Information if the entry is being used as an inst. message contact (p. 24) or for PoC (p. 38):
Nickname:, **PoC ID**:, **PoC type**:,
WV user ID:, **ICQ number**:,
AIM screen name:

Birthday: After activation, you can enter the date of birth. When Reminder is active, the telephone reminds you one day before the birthday at the time entered.

Picture: Assign a picture to the entry. It is displayed if you are called by a corresponding phone number.

All fields/Reduced fields

Display of number of input fields.

Display/find entry

⬇ → Select required entry → ●

Press **Options** to display features for the selected input field.

Change entry

⬇ → Select required entry → **Edit**
 → Select input field
 → Make changes → **Save**

Calling an entry

Open Addressbook (in standby mode) ⬇, select a name with the first letter and/or scroll, then press **Call** to dial.

If there are several numbers in the Addressbook entry, these are offered for selection.

Groups

Nine groups are configured in your phone to enable you to arrange your Addressbook entries clearly. You can rename seven of them.

⬇ → <Groups> → Select group → ●

Ringing tone for group

See p. 32.

Phonebook

Entries in the Phonebook (on the SIM card) are managed separately from those in the Addressbook.

New entry

If the Phonebook has been selected as the default:

Open Phonebook (in standby mode).

⬇ → <New entry> → ●
 → Select entry field.

Number: Always enter phone number with prefix. An entry is not saved without a phone number.

Name: Enter first and/or last names.

Group: Default No group
 Important phone numbers can be combined together in a group (VIP). This is independent of the Addressbook groups.

Location: Default SIM
 Special SIM cards can save phone numbers in a protected area (SIM protected) (PIN2 required).

Record #: Is automatically allocated to every entry. The phone number can be dialed with your record number.

Press **Save** to store the new entry.

Call (search for an entry)

Open Phonebook ⬇, select a name with the first letter and/or scroll, then press **Call** to dial.

Change entry



→ Select desired input field.

Make changes and press **Save**.

<Special books>



<Own numbers>

Enter your own phone numbers in Phonebook (e.g. fax) for information purposes.

<VIP numbers>

Display the phone numbers saved in the VIP group.

<SIM phonebook>

Entries stored in the Phonebook on the SIM card can also be used on other GSM phones.

<Protected SIM>



On special SIM cards, phone numbers can be stored in a protected location. PIN2 is required for editing.

<Service nos.>

There might be phone numbers saved in your Phonebook that have been provided by your service provider.

Call records

Phone numbers are saved to make it easier to redial them.



Up to 500 entries are stored in the logs:

Missed calls



The phone numbers of calls that you have received but not answered are stored for call-back purposes.



Missed call.

Calls received

Accepted calls are listed.

Calls dialed

Access to the last numbers dialed by you.

Press for fast access in standby mode.

Delete records

The logs are deleted.

Dur./charges



Select feature: Last call, All outg. calls, All incoming, Remain. units, Charge setting

Press to open report or settings.

Press **Reset** to reset the selected log.

Charge setting

Press to open menu.

Currency

Edit your currency.

Charge/Unit

Enter the currency as well as the charge per unit and time.

Account limit

Special SIM cards allow you or the service provider to define a credit or a period after which the phone is unable to make outgoing calls.

Auto display

Call duration and charges are automatically displayed.

Camera

You can view photos/videos recorded on the built-in camera immediately and,

- use the photo as a background image, logo, a switch on/off animation or a screensaver
- send the photo/video via MMS or e-mail.

Switch on



Or



Starts camera in standby mode.



Switch over to single image and video recording.



The current (preview) image is displayed. You will see the following in the first line from left to right:



Brightness



Zoom factor.




White balance.



Flash connected.

In the top right-hand corner of the preview image, the number of photos that can still be taken in the selected resolution is displayed. This number varies considerably from motif to motif (storage space required).

Under the preview image, you will find a reference to the selected resolution. In video mode, the recording time already used and the maximum recording time still available is shown here.

When clamshell is closed press the  side-key to start the camera.

The second display shows the preview image, the number of photos that can still be taken and the current resolution.

This makes it possible to take self-portraits.

Photo mode



Takes a photo.



Displays the preview image of the next photo.

The photo is saved with a name, the date and the time. To enter the name, see Settings in the Options menu.

Settings prior to taking a photo:



Sets the brightness.



Sets the zoom factor.

Image resolution

A setting can be made for the image quality regardless of the preview image resolution.

Premium: 640 × 480 (VGA)

High: 320 × 240 (QVGA)


Medium: 160 × 120 (QQVGA)

Background: 132 × 176

The resolution may decrease depending on the selected digital zoom.

Video mode

The video mode resolution is the same as the preview image resolution.

Start/end the video recording with .

A red dot appears in top right of the display while the video recording is being made.



Plays the video recording.

Flash (Accessories)

If the flash is active, this is shown by a symbol in the display. The flash is constantly loaded while connected to the telephone. This reduces standby time.




flashes when the flash is being loaded.

Settings, see options menu.

Message list

Inbox

The central input folder contains all messages that have been received. The entries are marked with a symbol to indicate their type and status (p. 11).

To call up the central input folder, e.g. if a new SMS has been received, press .

When you open an entry, the relevant application also starts. After a set time span, entries that have already been read and opened are only displayed in the **(Options)** message-related incoming lists.

In the central input folder, you will find the following **message types**:

SMS, MMS, E-mail

System messages

Message about MMS, Missed alarm, Missed appts., Missed calls, WAP push, Voice message.

Data objects

Ring tones, Pictures and Videos, calendar entries, Notes and Business card.

Message lists


All SMS, MMS and E-mail are each displayed in four separate lists.

 →  → Inbox
→ Select message type.


List of received messages.

 →  → Draft
→ Select message type.

List of saved drafts.

 →  → Unsent
→ Select message type.

List of messages not yet successfully sent.

 →  → Sent
→ Select message type.

List of received messages.

Options calls up the feature menu to process the messages.

Chat room



This feature is not offered by all service providers. Please contact your service provider for more information. You will find a description in the comprehensive operating instructions on the Internet at this address:

www.siemens.com/mobilephones

SMS

You can transmit and receive very long messages (up to 760 characters) on your phone. They are automatically composed of several "normal" SMS messages (note higher charges). Additionally, you can insert pictures and sounds in an SMS.

Write/send

 →  → Create new
→ SMS → Enter text → 

Select phone number from the Phonebook/Addressbook  or enter it and press .

The SMS is transmitted to the service center to be sent.

Special features

Picture&sound



Send the pictures and tones with or without accompanying text. Remember that these may be protected (DRM, p. 15).

The text input field is open:

Options → Picture&sound → Select area.

The menu contains:

Def animations, Def. sounds, My anim., My pictures, My sounds

Confirm with . The first entry of the selected section is displayed. Scroll to entry required with .

For Def animations/Def. sounds:

With the selection is added to the SMS.

For My anim., My pictures,
My sounds:

With the selection is displayed/played back.

With the selection is added to the SMS.

SMS archive

→ → SMS archive

The list of SMS messages stored in the phone is displayed.

SMS to group

You can send an SMS message as a "broadcast" to a recipient group.

→ → <Groups>
→ Select group →

Highlight all/individual entries and press . Sending is started after a safety inquiry.

Read

Arrival of a new SMS is announced by in the display.

The Inbox is opened. It offers you a quick overview of the messages currently received.

To read the SMS, press the joystick . Scroll through the message line by line.

If flashes, the SIM memory is full. Delete or file messages.

Reply

You can answer the SMS now open immediately with . The new additional text is placed above the received text.

Setting

SMS signature

→ → Msg settings
→ SMS setup → SMS signature

You can enter a "signature" with a maximum of 16 characters. This signature will then be attached to each SMS except **Reply** and when changes are made to an existing SMS.

SMS profiles

→ → Msg settings
→ SMS setup → SMS profiles

Up to 5 SMS profiles can be set. The transmission characteristics of an SMS are defined in these.

Activate profile

Select profile and activate it with .

Set profile

Select profile and open with **Edit** to process it.

MMS

The **Multimedia Messaging Service** enables you to send texts, pictures/videos and sounds in a combined message to another cellphone or to an e-mail address.

Depending on your telephone setting (p. 27), you will either receive the complete message or only a notification with sender details and size. The actual MMS can then be downloaded manually later.



Create

An MMS consists of the address header and the content. This may consist of a series of pages. Each page may contain a text, a picture and a sound. Remember that pictures and sounds may be protected (DRM, p. 15).

Create standard MMS

 →  → Create new → MMS

First select an object for processing to be added to the first page of the MMS:

Press  to display picture/video features: Insert picture, Insert video, Camera
SOUND → 

Display sound features: Insert sound, Record

TEXT → 

Display text features (see also p. 17).

Templates

 →  → MMS templates




MMS templates are saved MMS with no address. They can be sent as new MMS or used as part of a new MMS. A maximum of 10 templates can be saved.

Create templates by writing a new MMS or using an MMS that you have received.

Open menu **Options** and select Save as templ.

Send

The page(s) of the new MMS is (are) already created. The MMS is displayed.

 → Enter input fields →  → 

The MMS is sent after confirmation.

Subject: Enter a brief description of the MMS.

Send to: Enter one or more phone number(s)/e-mail address(es).

Size: Display the MMS size.



Attachments:

Insert attachments.

More: Provide additional address fields.

Receive

Arrival of new MMS/notification announced on display with / .


Press   to start reception. Depending on the setting (p. 27), the MMS/message is transferred into the central incoming message list (Inbox).

In order to receive the complete MMS **subsequently**, the message must be opened.

Start transfer with **Accept**.

Read

An MMS has been fully received.

Start playback with .

Key features for playback:



To the next page.



Press **briefly once** to return to the start of the current page; press **briefly twice** to return to the start of the previous page.



Set volume.



End.

When the MMS is complete, the message details are displayed.

Subject: Description of the MMS.

From: Information about the sender.

Size: Size of the MMS in KB.

More: Additional input fields.

Setting

- ➤  ➤ Msg settings
- ➤ MMS settings ➤ Select feature.

Connection profile:

Five MMS profiles can be set. The sending properties are specified in these profiles. If the setting has not yet been set, you will receive the necessary data from the service provider or via the "Setting Configurator" at:

www.siemens.com/mobilephonescustomercare

Select profile and confirm with **OK**.

Setting options

Display list of profiles with **Change** and select profile. Press **Edit** to make settings.

User settings

Set the MMS dispatch to suit your requirements.

E-mail

Your telephone has an e-mail program (Client) with which you can write and receive e-mails.

Write/send

- ➤  ➤ Create new ➤ E-mail

Enter address data:

To: Enter one or more e-mail address(es).

Subject: Enter the title of the e-mail.

Text: Enter text.

Expanded address fields


More: Open additional input fields.

Cc: Address(es) of copy recipient(s).

Bcc: Address(es) of copy recipient(s) who are not visible to the other recipients.

Attachments:

Adds attachments such as images and sounds.

To send: press .

Receive/read

- ➤  ➤ Inbox ➤ Select feature.

Before an e-mail can be read, it must be retrieved from the server.

Retrieve email

Only the message header is sent.

Options

Open menu and select Ret. content.

Send/receive

All e-mails are sent into Inbox and all completed e-mails from the Unsent list are sent.

Setting


- ➤  ➤ Msg settings
- ➤ E-mail setup ➤ Select feature.

Accounts

Before using this service, you must set the server access (account) and your e-mail parameters. You will receive the necessary data from the service provider.

- ⬇ ➤ Select account.

Activate access

Activate an account that has already been created with .

Set access

Press **Edit** to start editing. Fill in the data fields as specified by your service provider.

Voice message/CB

Voice message

-  ➤ Msg settings
- Voice message

If you have a mailbox, a caller can leave a voice message for you

- if your phone is switched off or not ready to receive,
- if you do not want to answer,
- or if you are making a phone call.

You may have to register for this feature and make manual settings.

Setup



The service provider supplies you with two phone numbers:

Save mailbox number

Call this phone number to listen to your voice messages.

-  ➤ Msg settings
- Voice message

Enter phone number and confirm with **OK**.

Save call forwarding number

Calls are forwarded to this phone number.


-  ➤ Call setup ➤ Divert
- e. g. Unanswered ➤ Set

Enter phone number and register it at the network with **OK**.

Listening to message



A new voice message can be announced as follows, depending on the service provider:

Icon  plus beep or  (Notification via SMS) or you receive a call with an automatic announcement.

Call your mailbox and play the message(s) back.

Press and hold **1** (if necessary enter mailbox number once only). Confirm with **OK** and **Mailbox** depending on your service provider.

CB services

-  ➤ Msg settings
- CB services

Some service providers offer information services (info channels, **Cell Broadcast**). If reception is activated, your **Topic list** will supply you with messages on the activated topics.

Surf & fun


Get the latest information from the Internet that is specifically adapted to the display options of your phone. In addition, you can download games and applications to your phone. Internet access may require registration with the service provider.

Internet

-  ➤ Internet

The browser is activated with the preset option as soon as you call up the feature (Browser settings, p. 29; may be specified/preassigned by service provider).

End connection

Press and hold  to clear down the connection and close the browser.

Navigation in the browser

- • Select a link.
- Settings, status on/off.
- Press **briefly**: back a page.
- One input field/link forward/back.
- Scroll one line.

Display symbols in the browser**Enter special characters**

* , 0 Select important special characters.

Browser settings

Your Internet browser is licensed by:



OPENWAVE™

**Profiles**

Preparation of the phone for Internet access depends on the service provider concerned:

Profile preset

In most cases, access profiles have already been created for one or more service provider(s).

Select profile and activate it with .

Set profile manually

You will receive the necessary data from the service provider or via the "Setting Configurator" at:

www.siemens.com/

mobilephonescustomer-care

Bookmarks

URLs stored in the phone are displayed. New bookmarks can be saved. It is possible to process or manage bookmarks in files.

Games and Applications

Games and applications are offered on the Internet. Once downloaded, these are available to you via the telephone. Most applications include instructions. Some applications and games are already pre-installed on your telephone. You will find these listed at:

www.siemens.com/mobilephones

Requirements

WAP profile (p. 29) and the access (p. 34) must be configured.

Download

Select the correct access depending on whether you are loading games or applications:



or



Load or start games, or else start applications or reload them with Download-wizard.

Download wiz.

You will not be left unassisted during the download!

Additional information

You can use the browser to download applications (e.g. ringtones, games, pictures, animations) from the Internet.

Siemens excludes all warranty and liability claims in respect of or in connection with any applications subsequently installed by the customer and any software not included in the original delivery package. This also applies to features enabled subsequently at the customer's instigation. The purchaser bears sole risk for the loss of, damage to, and any defects arising in this device or the applications, and for any direct damage or consequential damage of whatever nature resulting from the use of this application. For technical reasons, such applications and subsequent enabling of certain features are lost in the event of the device being replaced or re-supplied, and may be lost if it is repaired. In such cases, the buyer is required to download or enable the application again. Please ensure that your phone has Digital Rights Management (DRM) so that downloaded applications are protected from unauthorized reproduction. These applications are intended exclusively for your phone and cannot be transferred from it, even to create a backup. Siemens offers no warranty or guarantee nor does it accept any liability for the customer's ability to download or enable applications again or to do so free of charge. We recommend that you carry out a backup from time to time of the applications on your Windows® PC using the "Mobile Phone Manager" (www.siemens.com/mobilephones).

- Five standard profiles are provided with default settings. They can be changed, however: Normal environment, Quiet environment, Noisy environment, Car Kit, Headset.
- You can set two personal profiles (<Name>).
- The special profile Airplane mode is fixed and cannot be changed.

Profile settings

Edit a default profile or create a new personal profile:

 → **Options** → Change sett.

The list of available features is displayed. When you have finished setting a feature, you return to the profile menu where you can change further settings.

Car Kit

If an original Siemens Car Kit is used, the profile is activated automatically as soon as the phone is inserted into the cradle.

Headset



The profile is only activated automatically if an original Siemens headset is used.

Airplane mode

All alarms (appointments, alarm clock) are deactivated. This profile **cannot be modified**.

Switch on

 → Airplane mode

Confirm selection with  and confirm safety inquiry again with  in order to activate the profile. The phone switches itself off automatically.

Normal mode

When you switch on your phone again, the previously set profile will be reactivated automatically.

Setup

Profiles

 →  → Profiles

Several settings can be stored in a phone profile in order, for example, to adapt the phone to the surrounding level of noise.

Topics




Load a completely new user interface in your telephone. At the press of a button, various features are re-arranged by topic, e.g. startup/shutdown animation, Wallpaper, Screensaver, startup/shutdown tune, additional animations.

It is possible that the existing settings could be overwritten.

Topic files are compressed to save memory space. After a download or a call from My stuff, these are automatically unzipped when activated.

Activate new topic

Select topic and activate new theme with .


Display



Language

Set the display text language. When "automatic" is set, the language of your home service provider is used.

If a language that you do not understand happens to be set, the phone can be reset to the language of your service provider with the following input (in standby mode):

***#0000#** 

Text input

T9 preferred

Activate/deactivate intelligent text entry.

Input language

Select language for text entry.

Wallpaper

Set wallpaper graphic for display.

Logo

Choose picture to be displayed instead of the provider logo.

Color scheme

Select color scheme, incl. background image for the entire user interface

Screensaver

The screensaver shows a picture in the 2nd display when a period set by you has elapsed. An incoming call, pressing any key and opening the clamshell will end the feature except if the safety feature is activated.

The Digital clock screensaver reduces the phone standby time.

Start up anim.

Shown when the phone is switched on.

Shutdn anim.

Shown when the phone is switched off.

Greeting

Is displayed instead of an animation when you switch on the phone.

Large letters

You can choose between two font sizes for the display.

Illumination

Set display light brighter/darker.

Contrast

Set the contrast of the main display.

Ring tones



Set the tones on the telephone to meet your requirements.

Ringer setting

Activate/deactivate the ringer or reduce it to a short beep.

Silent alert

To avoid the disturbance caused by a ringing phone, you can activate the silent alert feature as an alternative. The vibration alert can be switched on in addition to the ringtone. This feature is deactivated when the battery is being loaded and accessories are connected.

Volume

Set different volumes for different types of call/features.

Please make sure you have accepted the call before holding the phone to your ear. This will avoid damaging your hearing with loud ring-tones.

Allocate ringtone

A ringtone that has already been selected will be played or the list of possible ring-tones will be displayed for selection.

Phone Pilot



Your **Phone Pilot** accompanies you with instructions for many actions you can perform with your phone. It reminds you of important deadlines or birthdays.

A **Phone Pilot** is in the phone by default and cannot be deleted.

Activate/deactivate

With **Off** you can deactivate **Phone Pilot** feature.

With **Default** you select the pre-set default figure.

If you have additional figures downloaded, you can also install, activate, or delete them:

Select entry and activate it with .

Install

You can download additional figures on the Internet.

Select entry in the list or **Inbox**. When installing a new **Phone Pilot** you can give it its own name. Press **Yes** to activate.

Call setup



Hide ID

If activated, your phone number will not appear on the other party's display (depending on service provider).

Call waiting

If you are registered for this service, you can check whether it is set and you can activate/deactivate it.

Divert

You can specify when calls are to be forwarded to your mailbox or other numbers.

Set up call forward (example)


The most common condition is **Unanswered**.

It includes the conditions **Not reachable**, **No reply**, **Busy**, see below.

Unanswered → → **Set** → Enter the phone number to which the call will be forwarded → **OK**.

The network setting confirms.

All calls

All calls are forwarded.  is shown in the top line of the display in standby mode.


Other possible forwarding conditions:

Not reachable, No reply, Busy,
Receiving fax, Receiving data

Call screening

Only calls from phone numbers that are in the Phonebook/Addressbook or in a group are signaled. Other calls are only displayed.

Any key

Incoming calls can be accepted by pressing any key (except for ).

Clamshell ans.

Incoming calls can be accepted by opening the clamshell.

Minute beep

During the call, you (and only you!) will hear a beep after each minute as a reminder of the time elapsed.

Phone setup

 →  → Phone setup
→ Select feature.

Key tones

Set the type of acoustic key acknowledgment.

Info tones

Set service and alarm tones.

Auto off

The phone switches off each day at the set time.

Phone identity

The phone identity number (IMEI) is displayed. This information may be useful for customer service.

Press **More** several times to display additional information about the device.

Device check

After the last information page, a self-test as well as individual test are offered. If you select **Self test**, all individual tests are carried out.

Software version

Display in standby mode:

Enter ***#06#**, then press **More**.

Memory assis.

The memory assistant will help you if there is insufficient phone memory.

File system**Format**

(Phone-code protected)

The telephone memory is formatted and **all** saved data such as ringtones, pictures, games, etc. are deleted. Formatting can last longer than one minute.


Clean up

Create more memory by deleting temporary files that are no longer required.

Fact. settings

Reset phone to default values (factory setting). This does not affect the SIM card or the network settings.

Alternatively enter in standby mode:

***#9999#** 

Clock

 →  → Clock
→ Select feature.

Time/date



Press **Change**, then enter the date and the time.

Time zones

Set the time zone for your area.

World map


Display of the world time zones.

Select a time zone with  .

34 Setup

City list

List of world cities.

Select a city in the selected time zone with .


Date format

Select the display format for the date.

Time format

Select 24h or 12h.


Buddhist date

Switch to the Buddhist date. 

Show clock

Activate/deactivate time display.

Auto time

The time setting is made automatically in the GSM network. 

Connectivity

 →  → Connectivity
→ Select feature.

GPRS

(General Packet Radio Service) 

GPRS is a new method for transmitting data faster in the mobile network. Symbols in the display, see p. 11.

GRPS info

Display connection information.

IrDA

Your phone has an infrared interface. The distance between the two devices must not exceed 30 cm (12 in.). The infrared windows in both appliances must be aligned as accurately as possible with each other. Symbols in the display, see p. 11.

Data services

Default setting and activation of the connection profiles for the applications MMS, WAP. The phone default setting varies from service provider to service provider: You will receive any data necessary from the service provider or via the "Setting Configurator" at:

www.siemens.com/mobilephonescustomercare

HTTP profile

The phone default setting varies from service provider to service provider. Consult your service provider or go to this address in the Internet for more information

www.siemens.com/mobilephonescustomercare

Authentication

Activate or deactivate encrypted WAP dial-up (CSD connections only).

Fax/data

Send voice/fax

Set this feature on the phone **before** transmission so that you can switch from voice mode to fax mode.

Rec voice/fax

Start the required communication program on your PC and select the feature on the phone **during** the call (the PC will take over the connection).

Recve fax/data

The call is signaled by a special ringtone and the type of call (fax or data) is displayed. Now start the communication program in your PC to receive the fax/data.

Security



Auto key lock

If activated, the keypad is locked automatically if no key has been pressed for one minute in standby mode. This prevents the phone from being used accidentally. However, you can still be called and you can still make an emergency call. Press and **hold #** to block/unblock the keypad in standby mode.

Direct call

Only **one** phone number can be dialed. The required phone code (4 to 8 digits) is set by you and entered at the first security setting.

To switch off, press and **hold #**, then enter the telephone code.

Only



Restrict calls to SIM-protected numbers in the Phonebook.

PIN code

Description, see p. 16:
PIN control, Change PIN, Change PIN2,
Chg.phonecode

This SIM only



Your phone is prevented from being used with a **different** SIM card.

Barring



Network restriction limits the use of your SIM card.

All outgoing

All outgoing calls except emergency numbers are blocked.

Outgoing intl.

(International outgoing)

Only national calls can be made.

Out.int.x home

(International outgoing without home country)

No international calls, only calls to the home country.

All incoming

The phone is blocked for all incoming calls.

When roaming

You will not receive calls when outside your home network.

Status check

Status check for network restrictions

Clear all

Clear all blocked calls.

Network



Line



Two independent phone numbers must be registered.

Network info

The list of GSM networks currently available is displayed.

Choose netwkr

Network search is restarted.

Auto network

If activated, the next network is dialed in the order of your "preferred networks."

Preferred net

Set the service providers you prefer when you leave your home network.

Band selection



Select either GSM 850, GSM 1800 or GSM 1900. Make sure that your service provider supports the selected band.

Fast search

Network reconnection is speeded up.

User group



Depending on service provider, you can create groups with this service. These can have access to internal (company) information, for example, or special tariffs apply. Please check with your service provider for details.

Accessories

-  → Accessories
- Select feature.

Car Kit

Only in combination with an original Siemens handsfree car kit. The car kit profile is automatically activated as soon as the phone is placed in the cradle.

Auto answer

(factory default: off)

Calls are accepted automatically after a few seconds. Eavesdropping is possible!

Automatic switch off

(factory default: 2 hours)

The phone is powered by the car's power supply. Set the time that must elapse after the ignition has been switched off and before the telephone is automatically switched off.

Car loudspk.

Improves playback in certain circumstances.

Headset

Only in conjunction with an original Siemens headset. If an original Siemens Headset is used, the profile is automatically activated when the headset is plugged in.

Auto answer

(factory default: off)

Calls are accepted automatically after a few seconds (except if the ringer is switched off or set to beep). You should therefore be wearing the headset.

If you do not notice that your phone has accepted a call, there is a risk of the caller eavesdropping.

In conjunction with a Car kit or headset, **closing the clamshell** will not cancel dialing or incoming calls.


Fast access key

Softkeys

Assign one phone number or feature to each of the two softkeys.

Change

For example, the **Internet** feature is assigned to the softkey. To change this (in standby mode):

Briefly press **Internet**, then **Change**. Select a new feature from the list and confirm with .

Apply


The "Internet" is just used as an example here.

Press and hold **Internet**, the application is started.

Speed keys

Assign one phone number or feature to each of the keys from 2 to 9. The 1 key is reserved for the mailbox.

Assigning features

Press a number key (e. g. **3**) briefly, then press **Set**. Select a new feature to be assigned from the list and confirm with .

Apply

Select a stored phone number or start a stored application (e. g. **Calendar**).

In standby mode: Press and hold **3**.

My menu



Set up your own menu. The list of 10 entries is preset, but can be changed.

Change menu

You can replace each entry (1–10) with another entry from the selection list. Select entry and press **Change**. The feature list is opened for selection. Select the **new** entry from the list and confirm with . The entry is saved.

Reset all

Select **Reset all**. After a security query, the default setting is reset.

Organizer



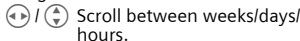
Calendar

You can enter appointments in the calendar. Time and date must be set correctly.

The calendar offers you three views: monthly view, weekly view, daily view.

The various entries are color-coded. Appointments are shown as a horizontal color bar on the vertical hour division.

Navigation:



Calend. setup

Start of day:

Hour when the working day begins.

Start of week:

Weekday on which the monthly and weekly view on the left starts.

Weekend

Set the days for the weekend.

Show birthdays:

Yes/No.

Appointments

Appointments are displayed in chronological order in a list.

Enter new appointment

<New entry>

Select.

Category:

Memo Text input for description.

Voice memo

Enter voice memos.

Call

Enter phone number. Shown with alarm.

Meeting

Text input for description.

Vacation

Enter start and end date.

Birthday

Enter name and date.

Different input/selection fields are displayed depending on the type. The number of fields can be restricted.

An alarm sounds even when the phone is switched off (except in *Airplane mode*, p. 30). The phone does not go to standby mode. To deactivate it press any key.



Tasks

A task is displayed like an appointment in the agenda of the selected day. However, unlike an appointment, it does not require a time. If no time is entered, the task appears at the top of the list every day until it is marked as completed. The entries are made in the same way as **Appointments** (see "Appointments").

Notes

T9-support (p. 17) makes writing short notes such as shopping lists easier. Save confidential notes with the phone code.


Missed appts.



Events with an alarm (Appointments, Tasks) which you have not addressed are listed for reading.

Dictat.machine





Use the dictating machine to record short voice memos.

New recording

Select <Record again>. Press . After a brief beep, say the text.

-  Pause/recording alternately.
-  End recording. The recording is automatically saved with a time stamp. Rename with Options.

Playback

-  Select the desired recording.
-  Playback/pause, alternately.
-  /  Press and **hold** rapid rewind and fast forward.

Time zones

See p. 33.

Extras

-  →  → Select feature.


PoC



This application can be used to simultaneously connect multiple subscribers. As with a normal Walkie-Talkie, only one subscriber can speak at a time. The others can only listen until the speaker allows others to talk.


A recipient is selected using their PoC address (PoC ID) or their phone number. Groups created in advance (p. 39) can be invited to a session. Your service provider will supply you with your own PoC address. Please note that using this application can incur additional costs. Please contact your service provider for more information.


To use the application, GPRS (p. 34) must be switched on and PoC (p. 39) activated.

To use the  sidekey you must first open the clamshell.

Preparing a session

From the Addressbook

Open Addressbook with  (in standby mode) and select an entry with PoC ID (Com. services).

Press  to start the session with the selected subscriber. For details of how to invite additional subscribers, see p. 39.

From standby mode

-  →  → PoC
- <New session>

Both possible features and already added subscribers are displayed.

You have several options to combine the subscribers:

<Add from

Search and add a recipient in the Addressbook.

<Enter PoC ID>

Enter PoC address for a recipient or a group.


<Add f. sess.>

Select a subscriber from an earlier session.

<Add from grp>



First select the group, and then select the recipient.

Starting a session

Press  to start a session.

Right to speak

The list of subscribers is displayed. The currently authorized speaker is shown in bold.

Press  to request speaking rights. When this is delegated, the requester can speak. Press  to return speaking rights.

Inviting additional subscribers

You can invite additional subscribers during a session.

Options → Invite

Mark new subscribers.

You are being invited

The invitation is shown in a window.

Accept the invitation with .

Leaving the session and ending

Only if you yourself started the session.


Options → End session

You will leave and end the current session.

Letting the session run in the background

The current session remains active in the background. A phone call ends the session.

Putting PoC in the background

Press and hold .

Using PoC again

 →  → PoC → Sessions

The session continues again.

Records

 →  → PoC → Records

Select the list of PoC calls received and made as well as the option to delete all lists.

Groups

 →  → PoC → Groups

Only **your** groups are displayed and can be edited.

<New entry>

Create and define a new group.


<Rejectlist>

List of subscribers with whom a session is not desired.


<Acceptlist>

List of subscribers whose invitation is automatically accepted.

Starting a session (group conversation)

Select a group and press  to start a session.

Viewing group properties

Select a group and press . Press

Options to open menu for further properties or for editing.

My presence

 →  → PoC → Presence
→ My presence

The following properties of yours can be set:

Interruption

Allow, forbid interruption

Mood

Display your mood.

Notes

Note.

Settings

 →  → PoC → Settings

Some settings must be made by the user, or they can be copied from your service provider. You can find further information in the full version of the user guide at

www.siemens.com/mobilephones



Select and confirm the feature, area.

PoC

Activate/deactivate PoC.


Load settings

Download settings from the service provider's server.

    Select feature.

SIM services (optional)

Your service provider may offer applications such as mobile banking, share prices, etc. via the SIM card.


 Symbol for SIM services.

For more information, please contact your service provider.


Alarm clock


The alarm will ring at the time set by you, even when the phone is switched off.



Press **Edit** to set the alarm.

Press  to activate/deactivate the alarm.

Set the time for the alarm call (hh:mm).

Press  to navigate to the various days.

Press  to display options: alarm call time and days.

Press  to set days for alarm calls. Press and **hold**  to highlight/unhighlight all the days.

Press **OK** to confirm setting.

You can set the alarm to repeat with **Pause**.

Sound recorder


Use the sound recorder to record noises and tones for use as ringtones.


New recording**Start from main menu**

    Sound recorder

or also start from another application:

Select <Record again>. The remaining time available, as well as the recording time, are shown in the display.

Press . A brief beep sounds when the recording starts.


Press  to switch between pause/record.

End recording with . The recording is saved with a time stamp in the folder **Sounds**. Rename with **Options**.

If starting from another application, e.g. create MMS:

Press **Insert** to transfer the recording into the application.








Playback


Select the desired recording. Press  to switch between playback/pause.

Press and **hold**  /  for rapid rewind and fast forward.

Calculator

The calculator can be used in a basic version or with an extended range of features (**Options**).


    Calculator
 Enter digit(s)
 Select feature 


Enter digit(s), select feature and press  repeatedly.

Unit converter

    Unit converter

You can convert various measurement units to other measurement units.

Select the source unit/currency with , then enter the quantity.

Select the target measurement unit/currency with . The result is displayed.

Special key features:



Set decimal point.
 * Change sign.

Currency

When you call up the feature the first time, enter the basic currency.

Enter currency (e.g. euro) and press **Save** to save the entry. Now enter the name and exchange rate of the currency to be converted.

Stopwatch

 →  → Stopwatch

Two intermediate times can be recorded and saved.

Press  to start/stop.

Press **Reset** to reset to zero.

Countdown

 →  → Countdown

A set time elapses. The last 3 seconds are indicated by a beep. At the end a special beep sounds.

Remote synchronization

 →  → Remote sync.

Synchronize externally saved data (addresses, calendar etc.) with data on the phone.

Synchronize

Sync Select computer, start synchronization.

Next Scroll through the various displays.

Sync. Setting

You can choose from 5 profiles.

Device manag.

 →  → Device manag.

If you were informed about software updates by a push message, you can establish a connection to the provider's server, so you can download them.

My stuff


To organize your files, you can use the file system like a PC file manager. There are some folders in **My stuff** for the various data types for this purpose. If, for example, you want to download new pictures or sounds, the download feature is contained in the relevant folder.



Remember that pictures and sounds may be protected (DRM, p. 15).


 → 

The list of the folders and files is displayed.

Navigation

With  you select file/folder in lists.


The cursor can be moved freely in the preview with  / .

Press  to open folder or start file with related application.

Press **Options** to use various administration features.


Media player

When you are viewing a picture/video or listening to a tune, the application starts a media playback.

With  you scroll to the next media file.

Enter 0–9 to switch on display illumination.

Pictures


 Zoom. The two softkeys (+/–) enlarge/reduce the picture. The joystick moves the picture detail.

5 Center the picture.

Switch to full-screen mode and back again.

Send Send via MMS or e-mail, for example.

Tunes/video

 Play or pause, depending on the situation.

* Switch to mute.

 Set volume.

 End playback.

Picture processing

Options Open menu and select Edit.

Mobile Phone Manager

MPM (Mobile Phone Manager) enables you to use extended phone features from your PC. The phone and PC communicate via IrDA or a data cable (Accessories).

Write EMS and SMS messages from the convenience of your PC. Use all the options your PC offers and use your sounds and pictures to create EMS messages. You can read, forward, print, delete, and save your messages.

Your photos, pictures, and backgrounds can be easily and conveniently altered or enhanced using several effects available in MPM.

With the Mobile Modem Assistant, you can easily use your phone as a modem both at home and abroad. You can readily gather your WAP favorites and move them to your phone.

Of course your phone's data and settings can also be backed up on your PC. With Phone Explorer, you can access your phone's files as if it were just another folder on your PC.

You can download the newest version of MPM from the Internet at:

www.siemens.com/mobilephones


Please consult the online help for further information on the features and use of MPM.

Accessories

Available Accessories are:

Textile Case FCT-600
Li-Ion Battery EBA-670 (600 mAh)
Travel Charger EU ETC-500
Car Charger Plus ECC-600
Desktop Stand EDS-600
Headset Basic HHS-500
Headset HHS-510
Headset Purestyle HHS-610
Car Kit Portable HKP-500
Flash IFL-600
Data Cable DCA-500
Data Cable USB DCA-510
Data Cable USB DCA-540
SyncStation DSC-510

Products can be obtained in specialist shops.

	<p>Siemens Original Accessories</p> <p>www.siemens.com/shop</p>
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For more detailed product information please see:

www.siemens.com/mobilephones

Customer Care

We offer fast, individual advice! You have several options:

Our online support on the Internet:

**www.siemens.com/
mobilephonescustomer care**

We can be reached any time, any place. You are given 24 hour support on all aspects of our products. Here you will find an interactive fault-finding system, a compilation of the most frequently asked questions and answers, plus user guides and current software updates to download.

When calling customer service, please have ready your receipt and the phone identity number (IMEI, to display press *#06#), the software version (to display, press *#06#, then **More**) and if available, your Siemens Service customer number.

In some countries repair and replace services are impossible where the products are not sold through our authorised dealers.

If repair work is necessary, please contact one of our service centres:

Abu Dhabi	0 26 42 38 00
Argentina	0 80 08 88 98 78
Australia	13 00 66 53 66
Austria	05 17 07 50 04
Bahrain	40 42 34
Bangladesh	0 17 52 74 47
Belgium	0 78 15 22 21
Bolivia	0 21 21 41 14
Bosnia Herzegovina	0 33 27 66 49
Brunei	02 43 08 01
Bulgaria	02 73 94 88
Cambodia	12 80 05 00
Canada	1 88 87 77 02 11
Chile	8 00 53 06 62
China	0 21 23 01 71 88
Colombia	01 80 07 00 66 24
Croatia	0 16 10 53 81
Czech Republic	2 33 03 27 27
Denmark	35 25 86 00
Dubai	0 43 96 64 33
Ecuador	18 00 10 10 00

Egypt	0 23 33 41 11
Estonia	6 30 47 97
Finland	09 22 94 37 00
France	01 56 38 42 00
Germany	0 18 05 33 32 26
Greece	80 11 11 11 16
Hong Kong	28 61 11 18
Hungary	06 14 71 24 44
Iceland	5 11 30 00
India	22 24 98 70 00 Extn: 70 40
Indonesia	0 21 46 82 60 81
Ireland	18 50 77 72 77
Italy	02 24 36 44 00
Ivory Coast	05 02 02 59
Jordan	0 64 39 86 42
Kenya	2 72 37 17
Kuwait	2 45 41 78
Latvia	7 50 11 18
Lebanon	01 44 30 43
Libya	02 13 50 28 82
Lithuania	8 70 07 07 00
Luxembourg	43 84 33 99
Macedonia	0 23 13 14 84
Malaysia	+ 6 03 77 12 43 04
Malta	+ 35 32 14 94 06 32
Mauritius	2 11 62 13
Mexico	01 80 07 11 00 03
Morocco	22 66 92 09
Netherlands	0 90 03 33 31 00
New Zealand	08 00 27 43 63
Nigeria	0 14 50 05 00
Norway	22 70 84 00
Oman	79 10 12
Pakistan	02 15 66 22 00
Paraguay	8 00 10 20 04
Peru	0 80 05 24 00
Philippines	0 27 57 11 18
Poland	08 01 30 00 30
Portugal	8 08 20 15 21
Qatar	04 32 20 10
Romania	02 12 09 99 66
Russia	8 80 02 00 10 10
Saudi Arabia	0 22 26 00 43
Serbia	01 13 07 00 80
Singapore	62 27 11 18

44 Customer Care

Slovak Republic	02 59 68 22 66
Slovenia	0 14 74 63 36
South Africa	08 60 10 11 57
Spain	9 02 11 50 61
Sweden	0 87 50 99 11
Switzerland	08 48 21 20 00
Taiwan	02 23 96 10 06
Thailand	0 27 22 11 18
Tunisia	71 86 19 02
Turkey	0 21 64 59 98 98
Ukraine	8 80 05 01 00 00
United Arab Emirates	0 43 66 03 86
United Kingdom	0 87 05 33 44 11
USA	1 88 87 77 02 11
Venezuela	0 80 01 00 56 66
Vietnam	84 89 20 24 64
Zimbabwe	04 36 94 24

Care and maintenance

Your phone has been designed and manufactured to the highest of standards and should be treated with great care. The suggestions below will help you to enjoy your phone for many years.

- Protect your phone from moisture and humidity. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits. Nevertheless, should your phone become wet, disconnect it immediately from the power supply to avoid electric shock. Do not place your phone (even to dry it) on/in a source of heat such as a microwave oven, oven or radiator. The phone may become overheated and possibly explode.
- Do not use or store the phone in dusty, dirty areas. Its moving parts may be damaged and the casing may become deformed and discoloured.
- Do not store your phone in hot environments (e.g. vehicle instrument panel in the summer). High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store your phone in cold environments. When the phone warms up again (to its normal ambient temperature), moisture can form inside the phone, which may damage electronic circuit boards.
- Do not drop, knock or shake your phone. Rough handling can damage internal circuit boards!
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone!

The suggestions given above apply equally to your phone, battery, charger and all accessories. If any of these parts is not working properly, obtain fast and reliable help at our service centres.

Battery quality statement

The capacity of your mobile phone battery will reduce each time it is charged/emptied. Storage at too high or low temperatures will also result in a gradual capacity loss. As a result the operating time of your mobile phone may be considerably reduced, even after a full recharge of the battery.

Regardless of this, the battery has been designed and manufactured so that it can be recharged and used for six months after the purchase of your mobile phone. After six months, if the battery is clearly suffering from loss of performance, we recommend that you replace it. Please buy only Siemens original batteries.

Display quality declaration

For technological reasons, a few small dots with different colours may appear in the display in exceptional cases.

Just remember that the appearance of brighter or darker dots generally does not mean that a fault has occurred.

Product data

Declaration of conformity

BenQ Mobile hereby declares that the phone described in this user guide is in compliance with the essential requirements and other relevant provisions of European Directive 1999/5/EC (R&TTE). The relevant declaration of conformity (DoC) has been signed. Please call the company hotline if you require a copy of the original:

www.siemens.com/mobiledocs

CE 0682

Technical data

GSM class:	4 (2 watt)
Frequency range:	824–894 MHz
GSM class:	1 (1 watt)
Frequency range:	1,710–1,880 MHz
GSM class:	1 (1 watt)
Frequency range:	1,850–1,990 MHz
Weight:	91 g (3.21 oz)
Size:	94 × 47 × 22 mm (80 cc)
Li-Ion battery:	600 mAh
Operating temperature:	–10 °C to +55 °C (15 °F to 130 °F)
SIM card:	3.0 V

Phone ID

You will need the following details if you lose your phone or SIM card:

The number of the SIM card (on the card):

.....
15-digit serial number of the phone
(under the battery):

.....
The customer service number of the
service provider:

Lost phone

If you lose your phone or SIM card, contact your service provider immediately to prevent misuse.

Operating time

The operating time depends upon the respective conditions of use: Extreme temperatures considerably reduce the phone's standby time. Avoid leaving the phone in the sun or on a heater.

Call time: 100 to 330 minutes

Standby time: 60 to 275 hours

Action taken	Time (min)	Reduction of standby time by
Calling	1	30–90 minutes
Light *	1	40 minutes
Network search	1	5–10 minutes

* Keypad input, games, organizer, etc.

SAR

INFORMATION ON RF EXPOSURE/
SPECIFIC ABSORPTION RATE (SAR)

THIS MODEL MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES

Your cellular phone is a radio transmitter and receiver. It is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (FCC, USA) and by Health Canada. These requirements include safety margins designed to assure the protection of all persons, regardless of age and health. They use a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit is 1.6 W/kg averaged over one gram of tissue.

The highest SAR value for this device when tested at the ear was 0.97 W/kg. In positions other than the head, such as on the body, a separation distance of 1.5 cm is required. The highest SAR value in this case was 0.63 W/kg.

Information about this device model can be found at <http://www.fcc.gov/oet/fccid> by searching the equipment authorization system using **FCC ID: PWX-CF76**.

As SAR is measured utilizing the device's highest transmitting power, the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to reach the network.

Additional Information can be found on the websites of the World Health Organization <http://www.who.int/emf> the Cellular Telecommunications Industry Association (CTIA) web-site at www.phonefacts.net the Canadian Wireless Telecommunications Association (CWTA) website www.cwta.ca or Siemens www.siemens.com/mobilephones



U.S. FDA

The U.S. Food and Drug Administration's (FDA) Center for Devices and Radiological Health Consumer Update on Mobile Phones

FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known – and what remains unknown – about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna – the primary source of the RF – and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies showed increased tumor

development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously – up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

1. In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.¹

2. Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus follow-up research is necessary.²

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

- Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.³

- In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.⁴

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile

phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- Support needed research into possible biological effects of RF of the type emitted by mobile phones;
- Design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to

ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products – and at this point we do not know that there is – it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle,
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or

- a headset with a remote antenna to a mobile phone carried at the waist.

Where can I find additional information?

For additional information, see the following websites:

- Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters"):
<http://www.fcc.gov/oet/rfsafety>
- World Health Organization (WHO) International Commission on Non-ionizing Radiation Protection (select Qs & As):
<http://www.who.int/emf>
- United Kingdom, National Radiological Protection Board:
<http://www.nrpb.org.uk>
- Cellular Telecommunications Industry Association (CTIA):
<http://www.wow-com.com>
- U.S. Food and Drug Administration (FDA) Center for devices and Radiological Health:
<http://www.fda.gov/cdhr/consumer/>

1 Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium; 1999 June 20; Long Beach, California.

2 Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, DC; and personal communication, unpublished results.

3 Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognitive function in man. *Int. J. Radiat. Biol.*, April 8, 1999.

4 Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors; a case-control study. *Int. J. Oncol.*, 15: 113-116, 1999.

FCC/Industry Canada Notice

Your phone 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, please 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.



Ten Driving Safety Tips

Your Siemens wireless phone gives you the power to communicate by voice – almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

Get to know your phone and its features such as speed dial and redial.

Carefully read your instruction manual and learn to take advantage of valuable features most phones offer including, automatic redial and memory dial – most phones can store up to 99 numbers in memory dial. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

When available, use a hands-free device. ☎!

A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your phone or a speaker phone accessory, take advantage of these devices if they are available to you.

Position your phone within easy reach.

Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voicemail answer it for you.

Suspend conversations during hazardous driving conditions or situations.

Let the person you are speaking to know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

Do not take notes or look up phone numbers while driving.

If you are reading an address book or business card while driving a car, or writing a “to do” list, then you are not watching where you are going. It’s common sense. Don’t get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

Dial sensibly and assess the traffic.

If possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip, or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip – dial only a few numbers, check the road and your mirrors, then continue.

Do not engage in stressful or emotional conversations that may be distracting.

Stressful or emotional conversations and driving do not mix – they are distracting and even dangerous when you are behind the wheel. Make people you are talking with aware you are driving and if necessary, suspend phone conversations that have the potential to divert your attention from the road.

Use your phone to call for help.

Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations – with your phone at your side, help is only three numbers away. Dial 9-1-1 in the case of fire, traffic accident, road hazard, or medical emergency. Remember, it is a free call on your wireless phone.

54 Ten Driving Safety Tips

Use your phone to help others in emergencies.

Your wireless phone provides you a perfect opportunity to be a "good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergencies where lives are in danger, call 9-1-1, as you would want others to do for you.

Call roadside assistance or a special wireless non-emergency assistance number when necessary.

Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call to 9-1-1. But you can still use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless numbers.

"The wireless industry reminds you to use your phone safely when driving."

**For more information, please call
1 (888) 901-SAFE, or visit our Web site at:
www.wow-com.com**

Provided by the Cellular Telecommunications
Industry Association (CTIA)

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