

MM428 mobile phone
Quick user guide

Note: the phone operates in the GSM 900/1800 MHz
Before turning on, you must insert at least one SIM card correctly.

1 ENTRY

This User Manual has been published by the manufacturer. Corrections and corrections resulting from errors, inaccuracies in current information and improvements to the phone or software may be made without prior notice, but will nevertheless be included in newer versions of the user manual. More information and assistance can be obtained by visiting the website: www.maxcom.pl. The manufacturer reserves all rights to the content contained in this manual.

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2 TECHNICAL SPECIFICATIONS

- Color display: 1.8" LCD 160 x 180
- Large backlit keys
- SOS button (Emits an alarm and automatically calls and sends SMS to previously defined numbers)
- Speed dial numbers (2 ÷ 9 and * and #)
- Simple Menu, large font
- Hands-free function
- Phone book - 500 entries
- Function of sending and receiving SMS and MMS
- FM radio, voice recorder, audio file player (MP3 / WAV / AMR)
- Flashlight, calculator, alarm clock
- Dual SIM: Mini SIM + Mini SIM
- card support: up to 4 GB
- 800 mAh battery
- Standby time: 240 h*, talk time: 5 h*
- Weight of the handset with battery: 78 g
- Dimensions: 116 x 54 x 13 mm

*depending on conditions and mobile network signal

3 CONTENTS OF THE SET

- Mobile phone
- USB cable
- Battery
- Quick start guide
- Warranty Card
- Charger * (see marking on the packaging)



*For environmental reasons this package does not include a charger. This device can be powered with most USB power adapters and a cable with USB Type-C plug.

Note: it is recommended to keep the packaging, it may be useful for possible transport. Please keep the receipt, it is an integral part of the warranty.

4 CHARGER



Power deliver by charger must be between a minimum of 0,75 W required by radio device and a maximum of 10 W to achieve maximum charging speed.
The set includes a USB cable that allows you to charge from a USB port on your computer or connect a charger.

Charging speed depends on both the phone and the capabilities of the charger. However, your phone is the determining factor in the maximum power consumption, so it is recommended to use a high-quality charger.

5 ACCESSORIES

Use only batteries, chargers and accessories recommended by the manufacturer of this phone. Check what accessories are available from your seller.

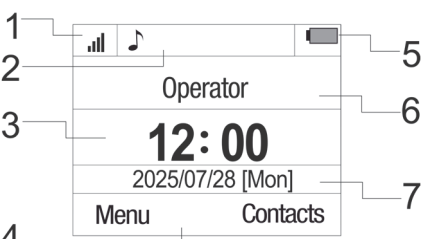
6 TERMS OF USE AND SAFETY

Note: Please read the following rules to minimize the risk of misuse of your phone.

- USE: the phone emits an electromagnetic field that may have a negative impact on other electronic devices, including medical equipment.
- You must not use the phone in areas where it is prohibited, e.g. in hospitals, airplanes, at gas stations or near flammable materials. Using your phone in such places may expose other people to danger.
- Do not use your phone without the appropriate kit while driving.
- The device and its accessories may contain small parts. Keep the phone and its components out of the reach of children.
- SERVICE: do not make any repairs or modifications yourself, any faults should be removed by a qualified service.
- CLEANING: the phone must not be cleaned with chemical or corrosive substances.
- FLASHLIGHT: do not look directly into the light beam.
- HEARING AID: if the user has a hearing aid, carefully adjust the telephone volume and set the hearing aid sensitivity appropriately.
- ELECTRONIC MEDICAL EQUIPMENT: your phone is a radio transmitter that may interfere with the operation of electronic medical equipment or implants such as hearing aids, pacemakers, insulin pumps, etc. It is recommended to maintain a minimum distance of 15 cm between the phone and the implant. You can seek any advice on this matter from your doctor or from the manufacturers of this type of equipment.
- ELECTRONIC EQUIPMENT: To avoid the risk of demagnetization, do not leave electrical devices near your phone for long periods of time.
- WATER RESISTANCE, DUST-PROOF: IP44 (protection against small foreign bodies and water splashes).
- DISPLAY: avoid putting too much pressure on the LCD display and using sharp tools, as this may damage it.
- Do not short-circuit the battery terminals with metal objects as this may result in explosion.
- The device must not be exposed to low or high temperatures, direct sunlight or high humidity. The device must not be placed near a heating installation, e.g. a radiator, radiator, oven, central heating stove, fireplace, grill, etc.
- Protect your hearing!
 Prolonged exposure to loud sounds may damage your hearing. Listen to music at a moderate level and do not hold the device close to your ear when using the speaker.

- If the device does not work properly, have it repaired at the nearest authorized service center or file a complaint with the seller. The manufacturer is not responsible for defects caused by the user as a result of improper use or non-compliance with the operating instructions.

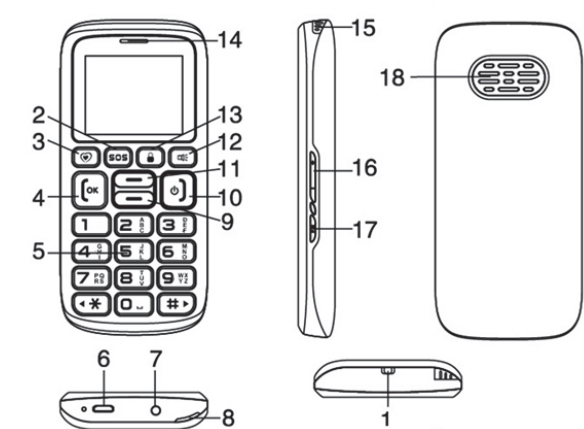
7 DISPLAY DESCRIPTION



1. Signal strength indicator
2. Icons showing functions (table below)
3. Time
4. Description of function keys
5. Battery level indicator
6. Operator name
7. Date

	Network signal		No SIM card / SIM card error
	No services		Lack of coverage
	2G coverage		Airplane mode
	New SMS / MMS		A missed call
	Vibrate only (meeting profile)		Muted (silent profile)
	Active profile "Outdoors"		Roaming active
	Alarm active		Call forwarding enabled
	Battery full		Battery discharged
Icons may vary depending on software version		* The icon also appears in national roaming when the subscriber uses the network of another operator	

8 PHONE DESCRIPTION



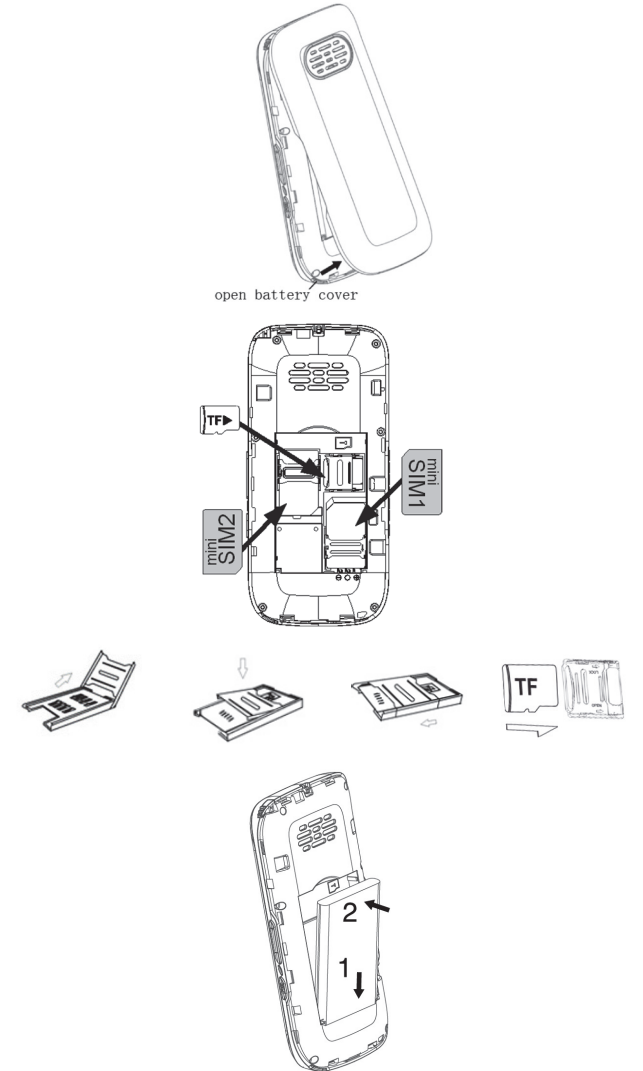
1	Lanyard	It allows to mount a lanyard
2	SOS key	Press and hold: triggers the SOS procedure
3	key	Press: enter speed dial
4	Green handset	Press: answering incoming calls / call logs and serves as left function key and OK key
5	Numeric keypad	Allows you to enter numbers / characters. Key 1 – press and hold to call your voicemail. Key 2 ÷ 9 – press and hold to call previously programmed speed dial number. 0 key – press: enter 0 / space. Press and hold to quickly change the profile i.e. normal / silent. * key – pressing while editing text allows you to access special characters. # key – pressing while editing text allows you to change the input keyboard.
6	Female USB-C socket	It allows to charge the phone's battery and connect it to a computer via a USB-C cable
7	Flashlight	LED diode emitting white light
8	Opening the battery cover	
9	Navigation key down	Press: move down through display content / shortcut to Contacts
10	Red handset	Press: reject / hang up calls / serves as right function key. Press and hold: turn the phone on / off.
11	Navigation key up	Press: move up through the displayed content / shortcut to the Menu
12	Flashlight key	Press and hold: turn on / off the flashlight
13	Keyboard lock key	Press: lock / unlock the keyboard
14	Call speaker	Active during conversations
15	FM radio module	
16	Volume + / - key	Press: volume up / down. Mute the ringtone during an incoming call.
17	FM radio key	Press and hold: activate FM radio
18	Speaker	Active for multimedia / ringtones

9 PREPARING YOUR PHONE

9.1 INSTALLING THE SIM CARD, SD CARD AND BATTERY

The phone supports Mini SIM cards (2FF). Using other SIM cards may damage the card or phone. You will receive a SIM card from your operator. Keep the SIM card out of the reach of children. Any abrasion or bending can easily damage the SIM card, so be especially careful when inserting, removing and storing it.

Note: Do not insert or remove the SIM card while the phone is connected to the charger. Before removing the battery from your phone, make sure your phone is turned off.
Insert the SIM card into the slot with its gold-plated connectors facing down, optionally install a long SIM card or a micro SD memory card. Install the battery. See the drawings below:



9.2 CONNECTING THE POWER SUPPLY AND CHARGING THE BATTERY



To ensure proper operation of the phone, use only the charger and battery recommended by the manufacturer. Using a battery from a third-party source may damage the phone and void the warranty.

Connect the cable plug to the USB Type-C port on the phone and the other USB connector to the power supply. Plug the power supply into a power socket.

The Maxcom logo and the charging battery icon will appear on the display. This will be a sign that the battery is properly connected and therefore the charging process has started.

When the battery is charged, the message "Charging completed" will appear on the display and the icon showing the battery charge level will stop flashing in the notification bar.

If the battery is discharged, the phone will automatically turn off. Do not leave the battery discharged for a long time, otherwise it may adversely affect its quality and service life.

Attention! In order not to damage the battery and the phone, you should: check that the battery is installed correctly before charging and do not remove the battery during the charging process. In case of long-term discharge, after connecting the battery to charge, wait a few minutes before turning on the phone. The battery must not be stored near heat sources. Overheating can cause physical damage to the battery.

Attention! Power socket must be located near device and easily accessible.

9.2.1 LOW BATTERY WARNING

When the battery is low, the phone will alert you to the need to connect to charge with the message "Low battery" and with an acoustic signal (if warning sounds have been enabled in the profile). To disable / enable the warning sound, go to: Menu > Settings > Profiles > Options > Settings > Other alert rings > Battery low alert.

10 TURNING THE PHONE ON AND OFF

To turn on the phone, press and hold the red handset key. After a while, the display should light up. After switching on, the display will show a field for entering the PIN code (if SIM card security is enabled). After turning on, the phone automatically searches for the network. If the phone detects an authorized network, the signal strength symbol will appear on the screen. If the network is not found, you can only make emergency calls or use non-communication functions.

To turn off the phone, press and hold the red handset key.

11SECURITY CODES

11.1 PIN CODE

This is your SIM card's private identification code and is provided by your operator.
The PIN2 code is provided by the operator with the SIM cards.
Some SIM cards do not support this code.
Entering the incorrect PIN code 3 times in a row will block the SIM card. It can be unlocked using the PUK code. For more information about this, please contact your network operator.

11.2 PHONE LOCK

The phone lock code prevents others from using your phone without authorization (the original phone code is 1234).
Using your phone code, you can block others from using selected settings on your phone.

12ENTERING TEXT

To write text, press the appropriate key until the desired letter is displayed. Spacebar – press the 0 key.
Period, comma and other characters – press the 1 key several times.
To enter a symbol or special character, press *.
You can change the input method by pressing the # key. Available are:

- Abc – after the dot a capital letter,
- abc – lowercase letters,
- ABC – capital letters,
- 123 – digits.

13MAKING CALLS

In standby mode, enter the phone number you want to call.
Press the red handset key "Delete" to delete invalid data entered.
Once you have entered the correct number, press the green handset, to make a call.

1. **Dialing extensions.**

Some extensions cannot be reached directly and it is necessary to first call the telephone exchange or trunk and then dial the extension number.

2. **Making an international call.**

For international calls, you must enter "00" or "+" before the number. To enter "+" use the "*" key.

3. **Dialing a number from the phone book.**

Enter Contacts via the Menu, use the Up / Down navigation keys to find a contact. Press the green handset.

4. **Dialing a number from the call history.**

Enter the Call Log (press the green handset in standby mode or enter via the menu), use the Up / Down navigation keys to select the desired contact. Press the green handset.

5. **Speed dialing – keys 2 ÷ 9 and * and #.**

In standby mode, press and hold the appropriate key to make a call.

13.1 ANSWERING CALLS

To answer an incoming call, press the green handset.
To reject an incoming call, press the red handset.

14ICE CONTACTS

You can dial up to 5 emergency numbers.
To add / remove / edit a contact, select Menu > Settings > SOS > ICE contacts > select which item you want to change, press the left soft key Options > Edit. After making changes, press "OK".

15SOS BUTTON

You can enable or disable the SOS button. To do this, select Menu > Settings > SOS > SOS status.
To activate the SOS procedure, with the display illuminated, press and hold the SOS button.
The phone will trigger an alarm (if enabled), send an alarm SMS (if enabled in SOS options) and automatically call the numbers provided in the ICE contacts section.
Remember! *If you receive a voicemail while trying to make an emergency call to a given number, the phone will assume that the call has been established and the SOS procedure will end.*

15.1 SOS MESSAGE

You can enable / disable sending SOS messages in emergency mode. To do this, select Menu > Settings > SOS > SOS SMS > Status.
You can change the contents of the SMS message that is sent in the alarm procedure. By default, the text is: *"Please help me! I am in an emergency."*. To change the content of SOS message, select:
Menu > Settings > SOS > SOS SMS > SOS SMS content. Enter the correct text and press "Save".

15.2 DISABLING THE SOS ALARM

You can turn on / off the alarm sound when making an SOS call. To do this, select: Menu > Settings > SOS > Emergency alarm.

16EMERGENCY NUMBER

You can directly dial the emergency service number 112 without a SIM card. The number 112 is the European Emergency Number.

17SAVING CONTACTS

In standby mode, select the desired number (or select from the call list) > press the Options key > Add to contacts, press OK, select where you want to save (as a new contact, or add the number to an existing contact), select the memory (Phone or SIM) and enter the contact name > Save.
If you have chosen to save the contact on your phone, you can add change the ringtone.

18SIMPLE DIALING

To assign a number to a key, in Menu select:
Contacts > Options > Others > Speed dial.
Select, which key you want to assign a number to and press Options > Edit. Enter the number or select a number from your contact list, press OK to save.

19SMS AND MMS MESSAGES

The phone allows you to send and receive SMS text messages and MMS multimedia messages. When the icon appears on the screen, ☒ it means that there is at least one unread message.
To read the message, select Menu > Messages > Inbox in standby mode. When your inbox is full, you will see a message saying your message memory is full. Delete messages from your inbox to resolve the issue.

19.1 WRITING AND SENDING MESSAGES

1. In the Menu, select Messages,
2. Select Write message,
3. Enter your message,
4. Add a contact from phone book Options > Contacts or Options > Done and enter the desired number,
5. Press Send.

If you want to send a message to several people, when entering the number, add another number after a semicolon or add numbers saved in the phone book.
To save the message, press Options > Save as draft (the message will be saved in the Drafts folder).
Press Options to insert information about a contact saved in the phone book, add an emoticon, insert a template, etc.

19.2 READING AND RESPONDING

When the unread message icon appears on the display or you want to read received messages, select in the Menu:
Messages > Inbox > Search for the desired message
Press the Options key:

- Open – display the message,
- Reply – sending an SMS/ MMS message to the sender,
- Delete – delete the current message,
- Call – making a call to the sender,
- Lock – blocks the possibility of deleting the message,
- Move – change where messages are stored,
- Copy – making a copy of the message in another memory,
- Mark – ability to mark selected messages,
- Sort – change the message sorting category,
- Add sender to – ability to add a sender to the phone book,
- Delete repeated numbers – select and delete messages from one sender,
- Add to blacklist – the ability to add a number to the blacklist, which will result in blocking calls and text messages for this phone number.

19.2.1 MESSAGE SETTINGS

Enter the Menu and select: Messages > Settings > SMS / MMS.
Available options are: message center, message importance, on/off. delivery reports, on/off save sent messages, choose where to save messages, etc.

20VOICEMAIL

Voicemail is an operator service that allows us to leave voice recordings when someone fails to reach us. To find out more, please contact your operator. You may receive your voicemail number from your service provider. Select the number: Menu > Messages > Voice mail server, then enter the voicemail number.
After holding down key 1 on the keyboard in standby mode, the voicemail will be activated.

21LANGUAGE

Menu > Settings > Language settings > Display language.
Allows you to change the language of the phone menu. If you accidentally set a foreign language, to change to the correct one, in standby mode press navigation key up > Up > OK > Down > OK > OK. Then select the correct language and press OK.

22BLACK LIST

Menu > Settings > Phone settings > Security > Blacklist > Blacklist settings:

- Audio call interception,
- Message interception.

When the option is activated and numbers are added to the blacklist, the phone automatically rejects calls and/or text messages from numbers entered on the list.
To quickly add a number to the blacklist, select the desired number from the call log and press Options > Add to blacklist.
To check what numbers are on the blacklist, select:
Menu > Settings > Phone settings > Security > Blacklist > Blacklist.
To remove number from the blacklist, select a given number in the Blacklist > Options > Delete > OK.

23FM RADIO

Menu > Multimedia > FM radio or press and hold the FM radio key
To turn on the radio on / off, press the navigation key up. Use the volume + / - keys to increase / decrease volume. To search for channels, press Options > Auto search and save. Once you have found the channels, you can select one of them by pressing Options > Channel list > select one channel > Options > Play. To enable radio playback, in the background, press Options > Background play.

Attention! The quality of the received signal depends on where you are. The reception of radio stations is influenced by many external factors that may

cause poor reception quality, but this is not a basic for a complaint about the product.

24ALARM

Menu > Tools > Alarm

You can set and activate up to 3 alarm clocks. To do this, use the Up / Down navigation keys to select one item. Then press the green receiver. When editing, you can change the name, set the time, ringtone and repeat mode. After completing all the details, confirm activation of the alarm clock by pressing Done. To turn off the selected alarm clock, press the green handset. When the alarm clock goes off, you can turn it off by pressing the green handset, or activate the snooze function by pressing the red handset (after selecting this option, the alarm clock will ring in 5 minutes).

Attention! Enabled alarm clocks will be triggered even when the phone is turned off, if the battery status allows it.

25NUMBER SOUND

This function allows you to speak numbers when dialing and during incoming calls. To turn enable / disable individual functions, simply select the appropriate option and press the green handset.

26AIRPLANE MODE

To enable / disable Flight mode (mobile network services disabled), select: Menu > Settings > Call settings > Dual-SIM > Standby mode > Flight mode.

27DUAL SIM

Menu > Settings > Call settings > Dual-SIM.
You can choose which card(s) are to be active, which SIM card is to be set to reply by default and change the name of the SIM cards.

28PHONE PERSONALIZATION

28.1 SOUND PROFILES

To change sounds, select: Menu > Settings > Profiles > Options > Settings.
To quickly change the ringtone volume in standby mode, use the side volume keys to set the volume from 0 to 15.
To quickly change the call volume, use the side volume keys during a call, to set the volume from 1 to 15, the settings will be remembered for the future.

29BATTERY INFORMATION

The phone has a battery that can be recharged using the compatible charger. To extend the battery life, enable the energy management function by limiting its charging to 80%: MENU > Settings > Phone > Battery protection.
The operating time of the phone depends on various operating conditions. The shorter work time is significantly influenced by how far we are from the relay station and the length and number of conversations. While moving, the phone constantly switches between relay stations, which also has a significant impact on the operating time.
After several hundred charges and discharges, the battery naturally loses its properties. If you notice a significant loss of performance, please purchase a new battery.
Only use batteries recommended by the manufacturer. Do not leave the charger connected for longer than 2 - 3 days.
Note: Do not keep the phone in places with too high temperatures. This may have a negative impact on the battery and the phone itself.
Never use a battery with visible damage. This may result in a short circuit and damage to the phone. The battery must be inserted according to polarity. Leaving the battery in places with excessively high or low temperatures will reduce its service life. The battery should be stored at a temperature of 15°C to 25°C. If a cold battery is inserted into the phone, the phone may not function properly and there is a risk of damage.

30ENVIRONMENTAL INFORMATION

Note: this appliance is marked in accordance with European Directive 2012/19/EU with the crossed-out waste bin symbol.

 Such marking informs that this equipment, after its period of use, cannot be disposed of with other household waste.
Note: this equipment must not be disposed of as municipal waste!!! The product should be disposed of through selective collection at points prepared for this purpose.
 Proper handling of waste electrical and electronic equipment helps to avoid harmful consequences for human health and the natural environment resulting from the presence of hazardous components and improper storage and processing of such equipment . To enable the recycling of materials used in the production of phone packaging, apply the rules for sorting materials established locally for this type of waste.
The set includes a Li-ion battery. Used batteries are harmful to the environment and should be stored at a specially designated point, in an appropriate container, in accordance with applicable regulations. Batteries and accumulators must not be disposed of as municipal waste, they should be taken to a collection point.



DO NOT THROW BATTERIES OR ACCUMULARS INTO FIRE!

31SAR INFORMATION

This model meets international guidelines for exposure to radio waves. This device is a transmitter and receiver of radio waves. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include a safety margin to ensure the protection of all persons regardless of age and health. These guidelines use a unit of measurement called Specific Absorption Rate (SAR) – specific absorption. The SAR value is measured at the highest transmitting power, the actual value when the device is operating is usually lower than the level indicated above. This is due to the device's power level automatically changing to ensure that the device uses only the minimum required to connect to the network. While there may be differences in SAR values between phone models and even different use positions, they all comply with safe radiation level regulations.
The World Health Organization has stated that current research has shown that there is no need for any special restrictions on the use of mobile devices. He also emphasizes that if you want to reduce the impact of radiation, you should limit the length of conversations or use a headset or loudspeaker during the conversation so as not to hold the phone close to your body or head.

Highest measured SAR value in tests			
System	Head-mounted device	Device at the torso (distance 5 mm)	Device at the limb (distance 0 mm)
GSM 900	0,304	1,756	3,784
GSM 1800	0,319	0,955	1,833
Limit (W/kg)	2,0	2,0	4,0

SAR values may also vary depending on national reporting and testing requirements and the frequency band of the network.

32FREQUENCY RANGE AND MAXIMUM POWER OF THE DEVICE

System	frequency range	Maximum emitted power
GSM 900	880 - 915 MHz	32 dBm
GSM1800	1710 - 1785 MHz	30.5 dBm
FM radio	87.5MHz - 108 MHz	-

33SIMPLIFIED EU DECLARATION OF CONFORMITY

Maxcom SA hereby declares that the type of radio device: MAXCOM MM428 mobile phone complies with Directive 2014/53/EU and Directive 2011/65/EU (RoHS)
The full text of the EU declaration of conformity is available at the following internet address:
http://www.maxcom.pl/deklaracje

Note: this manual is for informational purposes only. Some of the features and options described may vary by software and country.
If technical support is required, we recommend contacting the technical department at 32 325 07 00 or email serwis@maxcom.pl
Our website: <http://www.maxcom.pl/>

Proper operating conditions of the phone and battery depend on the local network environment, SIM card, and phone usage.
The manufacturer is not responsible for any consequences caused by incorrect use, abuse or failure to follow the instructions.
The manufacturer reserves the right to change or introduce changes without notice.

UK DECLARATION OF CONFORMITY
Hereby, Maxcom S.A. declares that the radio equipment type: Mobile phone MAXCOM MM428 is in compliance with the relevant UK legislation.
The full text of the UK declaration of conformity is available at the following internet address: www.maxcom.pl/deklaracje

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Full user manual:



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