



motorola defy

SATELLITE LINK

USER GUIDE

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Contents

Getting started	4
About your device	4
Notification LEDs	5
Account setup	6
Registering your device and choosing a satellite messenger plan	6
Pairing to your phone	7
Profile	7
Settings	7
Connecting to satellite	8
Sending a message	9
Check In	9
SOS	9
Sending an SOS	9
Cancelling an SOS	10
Operating the satellite link without a Bluetooth connection	10
Message allowance	10
Satellite coverage map	10
Safety and Certification	11



Getting Started

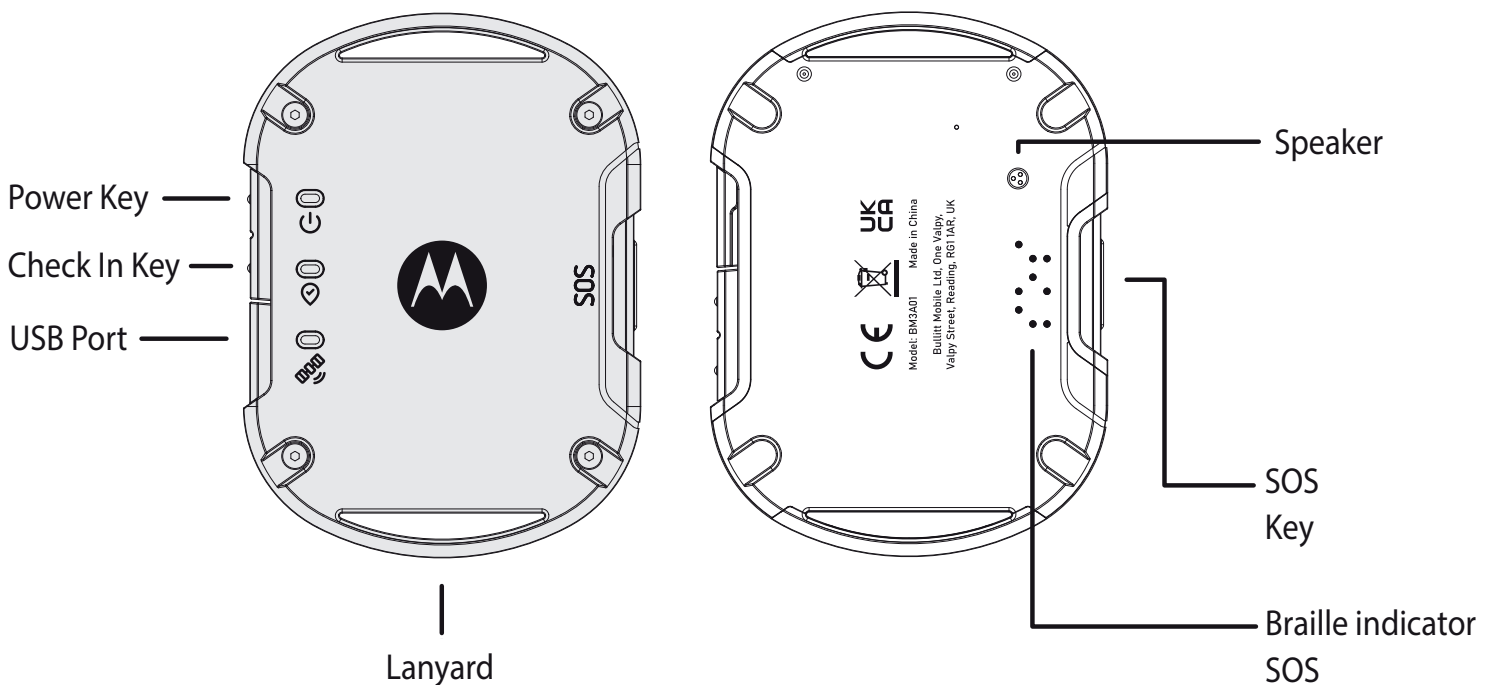
Your **motorola defy satellite link** allows you to send and receive messages over satellite using a compatible smartphone. You will need to download the **Bullitt Satellite Messenger** app from the Google Play store or Apple's app store, and then connect this device to your phone via Bluetooth through the app.

The Bullitt Satellite Messenger app allows you to send and receive messages as well as use features such as tracking, SOS, and check-in on your motorola defy satellite link device over satellite. To do this you will need an active satellite subscription and have the satellite link connected to your phone via Bluetooth. It is recommended to test the app and to connect to a satellite before you head out on your trip.

You can also send and receive messages via a WiFi connection or cellular data using the Bullitt Satellite Messenger app at no additional cost. If sending messages via a cellular connection a small amount of your data plan will be consumed. If you do not have a subscription to a Bullitt Satellite Messenger plan, the app can still be used to communicate with other app users using a normal internet connection.

For your device to send and receive messages over the satellite network, it needs to have a clear view of the sky. Avoid tall buildings and dense tree cover. If the device cannot connect it will continue to attempt to send the messages until it can establish a connection with satellites.

About your device



Power	Power on	Press and hold the power key until the device vibrates. The LED will flash blue 3 times.
	Power off	Press and hold for 3 seconds to power off the device, the device will vibrate and beep to confirm it has powered off.
	Enter bluetooth pairing mode	Once powered on, press the power button again to activate bluetooth pairing mode. The status light will flash blue quickly in this mode. (Note: This is only possible if not already paired to a device).
Check In key	Check in activation	Press the key for 1 second, until the device vibrates. This triggers the predefined check in message to be sent. In the app you can see a map that shows all your sent and received check in locations. (Note: Consecutive Check in notifications cannot be sent within 90 seconds of each other)
SOS key	Activate SOS	Hold SOS key for 5 seconds
	Cancel SOS	Hold SOS key again for 5 seconds

Notification LEDs

Your device has three LEDs. These are used to tell you the state that the device is in.

Power	Device powered on and ready, but not paired	Blue LED will flash 3 times slowly then turn off.
	Bluetooth pairing mode activation	Blue LED will flash quickly. Pairing mode remains active for 1 minute.
	Bluetooth paired	Blue LED will remain solid for 5 seconds then turn off. To check the device is paired press the power key once. If the device is paired the blue LED will be on for 5 seconds and then turn off.

Power	Battery low indication (10%)	Red LED will flash once every 5 seconds for 20 seconds, which repeats every 2 minutes.
	Battery charging	Solid red LED
	Battery charged	Solid green LED
	Notification that the user must pair with phone	Orange LED will flash once every 5 seconds. This will continue until paired, or battery runs out.
Check In	'Check in' sent	Solid Green LED for 5 seconds, then turns off
	'Check in' blocked, wait 90 seconds	Red LED will flash quickly for 5 seconds, then turn off
	'Check in' failed due to network error/low signal	Red LED will be on for 5 seconds, then turn off
	A message was received and stored on the device in un-paired mode	Green LED will flash once every 10 seconds
Satellite	Not connected to the satellite	Red LED will flash once every 10 seconds
	Connected to the satellite	Green LED will flash 5 times when connection established, then flash green once every 10 seconds to indicate the device is still connected.

Account setup

- Go to app.bullitt.com or scan the QR code in the box to create your free Bullitt Satellite Messenger account.
- Input the mobile number that you wish to use with Bullitt Satellite Messenger.
- A verification code will be sent to your designated number to confirm ownership.
- Complete the on screen prompts to create your account.
- You can now use the telephone number and password created at sign-up to login to the Bullitt Satellite Messenger app.

Registering your device and choosing a satellite messenger plan


- Enter the code printed on the insert inside the original packaging of your product and select a plan from the satellite service packages displayed on screen.
- Complete checkout by entering your billing address, contact details and payment method.

NOTE: A valid payment method is required to qualify for any free trial period displayed.

- After completing the above your device is registered and ready to use on the Bullitt Satellite Connect network. It may take up to 1hr for your satellite SIM to be activated.

Pairing to your phone

To pair your motorola defy satellite link to your phone, turn on the device by holding the power button for 3 seconds. The device will vibrate, and the power LED will flash blue. Once powered on, tap the power button again to enter pairing mode. The blue light will flash quickly when it is ready to pair with your phone. The device will stay in pairing mode for 1 minute.


Open the Bullitt Satellite Messenger app on your phone and press  at the top of the main screen, then select Pair against motorola defy satellite link.

Once paired select **Link** and then follow the instructions to set a contact for your Check In messages.

NOTE: After the initial pairing, your device will automatically pair to your phone every time that you turn it on (if Bluetooth is enabled on your phone).

Profile

Within the app it is possible for you to edit your profile, check your membership tier, see your remaining monthly message allowance, and manage your subscription. To access this from the Bullitt Satellite Messenger app:

- Tap  > Profile




NOTE: A data connection is required to manage or upgrade your service plan. This cannot be done over satellite so please check that you have sufficient messages for your trip.

Settings

Within the settings menu you can configure how you would like your device to work.

- **Message**
This option allows you to request receipts when your messages have been delivered over satellite. When messages have been delivered they will be marked with a double tick.

NOTE: Delivery receipts requires a message to be sent from the recipient phone back to your satellite link, and as such each delivery report will be deducted from your message allowance. The delivery receipt option can only be enabled and disabled when you have an internet connection. The setting cannot be changed via satellite.



- **Check In**
This option allows you to set and change the recipient and configure the message that you would like to send to that person.
- **Blocked contacts**
This will show you contacts that you have blacklisted, either fully or just over satellite. To unblock a contact tap **unblock**. To block a contact, go into relevant message thread for that contact, tap , then **Block** or **Unblock**.
- **Backup and restore**
This allows you to back up your messages to your Google Drive account.
- **Tracking session contacts**
Here you can assign your chosen contact to send tracking updates to. To enter someone from your contacts press , select the contact and then choose their phone number or email. To add the details of someone not in your contacts, click the box and enter the email or phone number.
- **Bluetooth devices**
Here you can see the regulatory information and the status of your device. You can also update the software of your device. Always update your motorola defy satellite link to the latest available software. You can also access this by pressing the green Bluetooth icon  at the top of the message screen.

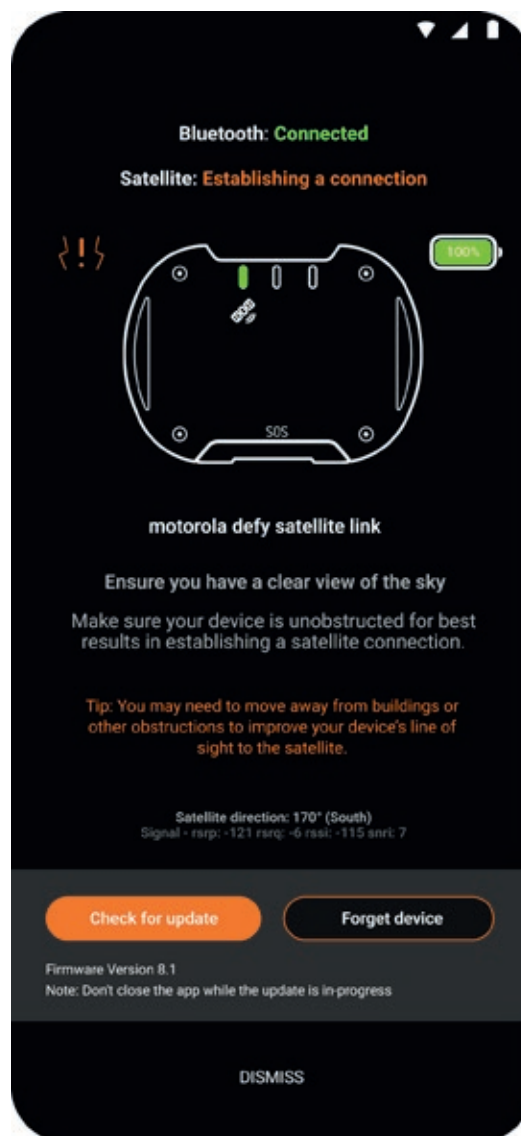
To check if a newer version of software is available, press the **check for update** button in the device settings.

If there is a newer version, accept the installation and make sure the Bluetooth connection is maintained until the software update is completed. The device will automatically reboot and reconnect to your phone to complete the process.

Connecting to satellite



To connect to a satellite, you need to be outdoors with a clear view of the sky.


- From the Bullitt Satellite Messenger app, tap the green Bluetooth icon  at the top of the screen. This will show you the status of your device. Your device should connect to satellite after about 90 seconds. If the orange  is shown and the orange text (highlighted in the picture below), then you will not connect to satellite. Move the position of your satellite link until these disappear. The status will change at the top of the screen when you are connected to the satellite.



NOTE: To optimise your satellite connection, it is recommended to face your satellite link in the general direction of the satellite. Typically, in the northern hemisphere these are in a southerly direction. In the southern hemisphere, you should try to face northerly.

Sending a message

- Tap  to begin composing a message.
- Select the contact that you wish to send the message to.
- Tap the **'Type your message'** box and compose your message.
- You can include your location in your message by selecting .

Messages are limited to ~140 characters. As you type your message you will see the  slowly turn blue as you type more characters. If you exceed the limit, it will turn red as will the characters in your message which have exceeded the limit.


To test sending a message over satellite, please ensure that your phone's internet connection is disabled by turning off Wi-Fi and disabling the cellular connection. This can be done by enabling Flight mode in your phone settings. However, please ensure that Bluetooth remains enabled on your phone.

NOTE: The app will always send messages over cellular or Wi-Fi if it can. If your message has been sent/received over satellite it will be marked by an orange triangle.

IMPORTANT NOTE: ANY MESSAGE SENT OR RECEIVED VIA SATELLITE WILL BE DEDUCTED FROM YOUR MONTHLY ALLOCATION.

Check In

Check in allows you to send pre-defined messages to a selected contact quickly. To use this, you must first select a recipient to send these messages to. In the Bullitt Satellite Messenger app:

- Tap  > Settings > Check In
- Add the contact.
- Choose the message that you would like automatically sent as a Check In message.

SOS

The utilization of the SOS feature on the motorola defy satellite link should be reserved solely for critical, life-threatening circumstances. Activation of this feature transmits an alert signal directly to a global response centre, who may subsequently notify the relevant emergency responders, such as local law enforcement agencies, highway patrol, the coast guard, or search and rescue teams, based on your GPS location and personal information.

IMPORTANT NOTE: UNLESS YOU HAVE A PREMIUM SUBSCRIPTION WITH FOCUSPOINT YOU ARE RESPONSIBLE FOR ANY COSTS THAT OCCUR FROM THE USE OF THE SOS FEATURE. THE INAPPROPRIATE OR FALSE USE OF SOS MAY RESULT IN INCURRING ADDITIONAL, AND POSSIBLY SUBSTANTIAL, LIABILITY CHARGES.

Sending an SOS

An SOS can be sent in two ways, an active satellite connection is required in both cases:

- Press and hold the physical orange key on the side of the device for five (5) seconds.
- Tap SOS in the app and then press and hold the SOS icon displayed on the screen for three (3) seconds.

Once activated, the SOS response centre will be notified that you need assistance, together with your location. After this you will be prompted to answer a series of questions that will provide the response centre with more context with regards to your situation. If you cannot complete these your SOS alert will still be responded to. The response centre will try to engage in a two-way chat to gather more information on your situation. Again, if you are unable to respond to these, your SOS alert will still be managed by the response centre.

NOTE: SOS alerts can only be sent over satellite.

Canceling an SOS

If you have accidentally sent an SOS message it is possible to cancel this by pressing and holding the orange button on the side of the device, or through the Bullitt Satellite Messenger app.

Operating the satellite link without a Bluetooth connection

Following the initial pairing, linking, and account set up, the motorola defy satellite link can be used without a connection to your phone (unpaired mode). The following features are supported in unpaired mode when connected to the satellite:

- **Sending check ins using the check-in button**

You must first define the check in contact using the Bullitt Satellite Messenger app while the device is paired to the phone. Check ins can be triggered every 90 seconds using the check in button. Check ins will be blocked if you attempt to send multiple within 90 seconds of each other.

- **Sending SOS requests using the SOS button**

An SOS message can be sent from the device, but you need to use the Bullitt Satellite Messenger app to exchange messages with the response centre. If you trigger an SOS in this situation, then the location of your device will be sent to the response centre. It is recommended that you stay in this position as this is where help will be sent.

- **Receiving messages**

The device will continue to receive messages while connected to the satellite. These will be shown in the Bullitt Satellite Messenger app the next time you connect to your phone. The check in LED will flash green once every 10 seconds to indicate that a message has been received in unpaired mode.

The device will continue to receive messages in unpaired mode until message buffer is full, indicated by the power LED flashing orange. Please connect to the Bullitt Satellite Messenger app to allow the messages to be transferred to your phone.

Message allowance

The number of messages that you can send and receive via satellite on a monthly basis will depend on your subscription. In all cases the number of messages quoted is the maximum allowed. Depending on the length of your messages your monthly total may be less than that quoted. You can monitor your allocation through the **PROFILE** menu.

Satellite coverage map

The Bullitt Satellite Connect service uses GEO stationary satellites. A map detailing the current availability and coverage of these satellites can be found here www.bullittsatelliteconnect.com/coverage Please ensure that you study this before using your device.

Safety and certification

- Do not disassemble, hit, throw, crush, puncture, or bend the device.
- Do not modify or attempt to insert foreign objects into the device, expose it to fire, explosion or other hazards.
- Only use the battery with a charger and cable that have been qualified with the system. Use of an unqualified battery or charger may present a risk of fire or explosion.
- Only authorized service providers can replace the battery.
- Always dispose of used batteries in accordance with local regulations.
- Do not tamper with the battery, misuse may result in a fire, explosion or other hazards.

For those host devices that utilize a USB port as a charging source, the host device's user manual shall include a statement that the device shall only be connected to CTIA Certification certified adapters, products that bear the USB-IF logo or products that have completed the USB-IF compliance program.

Operating temperature

Keep the ambient temperature between 0°C and 40°C while the device is being charged. Keep the ambient temperature between -25°C to 55°C for using the device powered by a battery. Please wear protective gloves while using it outside the range of 0°C to +45°C.

Viewing the E-label

To view the regulatory information on this device, do the following:

1. Open Bullitt Satellite Messenger Application.
2. On the Settings screen, select 'Bluetooth devices' > E-label Image.

CE SAR Compliance

This device meets the EU requirements (1999/519/EC) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The limits are part of extensive recommendations for the protection of the general public. These recommendations have been developed and checked by independent scientific organizations through regular and thorough evaluations of scientific studies. The unit of measurement for the European Council's recommended limit for mobile devices is the "Specific Absorption Rate" (SAR), and the SAR limit is 2.0 W/kg averaged over 10 grams of tissue. It meets the requirements of the International Commission on Non-Ionizing Radiation Protection (ICNIRP).

For body worn operation, this device has been tested and meets the ICNIRP exposure guidelines and the European Standard EN 62209-2, for use with dedicated accessories. Use of other accessories which contain metals may not ensure compliance with ICNIRP exposure guidelines.

SAR is measured with the device at a separation of 5 mm to the body, while transmitting at the highest certified output power level in all of the device's frequency bands.

The highest reported SAR values under the CE regulatory for the device are listed below:

Body SAR: 1.432 W/kg, Limbs SAR: 2.261 W/kg.

To reduce exposure to RF energy the device must be carried 5mm from the body to ensure exposure levels remain at or below the as-tested levels.

FCC Regulation

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

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

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

FCC note:

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

RF Exposure information (SAR)

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure near the body with the separation of 5 mm. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network.

The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR.

The SAR limit set by the FCC is 1.6 W/kg.

This device is complied with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1992 and had been tested in accordance with the measurement methods and procedures specified in IEEE1528. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: ZL5BM3A01.

The highest reported SAR values under the FCC regulatory for the device are listed below:

Body SAR: 1.42 W/kg

While there may be differences between the SAR levels of various device and at various positions, they all meet the government requirements.

SAR compliance for body-worn operation is based on a separation distance of 5 mm between the unit

and the human body. Carry this device at least 5 mm away from your body to ensure RF exposure level compliant or lower to the reported level.

Industry Canada statement

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

CAN ICES-3 (B)/NMB-3(B)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

ISED Radiation Exposure Statement

This EUT is compliant with SAR for general population/uncontrolled exposure limits in ISED RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with a minimum distance of 0.5 cm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition DAS incontrôlée pour la population générale de la norme CNR-102 d'Industrie Canada et a été testé en conformité avec les méthodes de mesure et procédures spécifiées dans IEEE 1528 et IEC 62209. Cet appareil doit être installé et utilisé avec une distance minimale de 0.5 cm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

Disposal and Recycle Information

This symbol on the device (and any included batteries) indicates that they should not be disposed of as



normal household garbage. Do not dispose of the device or batteries as unsorted municipal waste. The device (and any batteries) should be handed over to a certified collection point for recycling or proper disposal at the end of their life.

For more detailed information about the recycling of the device or batteries, contact your local city office, the household waste disposal service, or the retail store where you purchased this device.

The disposal of the device is subject to the Waste from Electrical and Electronic Equipment (WEEE) directive of the European Union. The reason for separating WEEE and batteries from other waste is to minimize the potential environmental impacts on human health from any of the hazardous substances that may be present.

Reduction of Hazardous substances

This device is compliant with the EU Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Regulation (EU Regulation (EC) No 1907/2006 (REACH) of the European Parliament and of the Council) and the EU Restriction of Hazardous Substances (RoHS).

Directive (Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 of the European

Parliament and of the Council). It is recommended to visit the Web site regularly for up-to-date information.

EU Regulatory conformance

Hereby, Bullitt Mobile Ltd. declares that this device is compliant with the essential requirements and other relevant provisions of Directive 2014/53/EU. For the declaration of conformity, visit the website:

www.motorola.com/red

Authorised Representative:

Authorised Representative Service

77 Camden Street Lower

Dublin D02 XE80

Ireland

NOTE: Observe the national local regulations in the location where the device is to be used. This device may be restricted for use in some or all member states of the European Union (EU). Some bands may not be available in all countries or all areas. Please contact the local carrier for more details. Maximum radio-frequency power transmitted in the frequency bands in which the radio equipment operates: The maximum power for all bands is less than the highest limit value specified in the related Harmonised Standard. The frequency bands and transmitting power nominal limits applicable to this radio equipment are as follows:

Spectrum and power table (EU Variant Only)

Operating Mode	Maximum Transmit Power (Conducted) dBm
BAND 23	24.00
BAND 255	24.00
BAND 256	24.00
Operating Mode	Maximum Transmit Power (EIRP) dBm
Bluetooth	-0.8

UK REGULATORY CONFORMANCE



Hereby, Bullitt Mobile Ltd. declares that the radio equipment with this declaration and bearing the UKCA Mark is in compliance with UK Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address: www.motorola.com/red

Device specification

General	
Dimension	85x62x11.2mm
Weight	70g
OS	RTOS
Platform	
BLE Chipset	OM6621Px
NB-IoT	MT6825
e-SIM	Yes
Memory	
RAM	64KB
ROM	512KB
Battery	
Capacity	600mAh
Type	Li-poly
Mechanical and connectors	
Housing materials / Gradient	PC + 10%GF
SIM	e-SIM (operational profile preloaded)
Number of physical buttons / keys	3: Power/Bluetooth Pairing, SOS, Check In
Status LED	1 x RGB, 1 x RG, 1 x RG
Others	Webbing strap with D ring
Vibrator	Yes
USB	
Type	type-C(USB 2.0)
Rugged	
MIL SPEC 810H	Yes
High Temperature: MIL SPEC 810H 501.5 Procedure II, 55°C (131°F), 100hrs	Yes
Low Temperature: MIL SPEC 810H 502.5 Procedure II, -25°C (-13°F), 24hrs	Yes
Low Storage Temperature: MIL 810H 502.5 Procedure I , -30°C (-22°F), 168hrs	Yes
High Temp and Humidity: MIL SPEC 810H 507.5 Procedure II: 0% to 95% - non-condensing humidity. Temperature cycled between 30°C (86°F) and 60°C (140°F), 240hrs	Yes
Thermal Shock: MIL SPEC 810H 503.5, Procedure I, -30°C (- 22°F) / 75°C (149°F), Stays 30mins, 42 cycles	Yes
Random Vibration: MIL SPEC 810H 514.6 Procedure I: Category 4, Frequency Range: 10Hz- 500Hz, Vibration Level: 1.04 g r.m.s (Vertical-Ax- is), 0.74 g r.m.s (Longitudinal-Axis), 0.20 g r.m.s (Transverse-Axis), 60 minutes x 3 axes	Yes

Drop Test: MIL SPEC 810H 516.6, 1.22m, 26 drops	Yes
Salt Mist: MIL SPEC 810H 509.5 Procedure I, 5% saline exposure for 2 cycles x 48hrs (24hrs wet/24hrs dry)	Yes
Drop	2m onto steel, 10 cycles
Waterproof	1.5m, 30 mins
Ingress Protection	
Rating	IP68
Audio	
Speaker	Single tone buzzer
Sensors	
GPS Location Support	GPS, GLONASS, Galileo, BeiDou
Network Mode	
Model	NB-IoT (Rel 17 for NTN)
Bluetooth Version	
Version	BLE 5.1
ECO and CERTS	
WEEE	Yes
RoHS/REACH + improved performance	Yes
IEEE1725	Yes
Halogen Free	Yes
FCC	Yes
Skylo Cert	Yes
UKCA	Yes
Bluetooth SIG	Yes
OS	
OS upgrades	Firmware updated via app
Accessory In Box	
Accessory In Box	1*device (including battery) 1*strap 1*USB cable 1*QSG 1*WY 1*QR code insert for Skylo IMSI