

Motorola defy satellite link

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GETTING STARTED

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

The Bullitt Satellite Messenger app allows you to use features such as tracking, SOS, and check-in on your Horizon device with an active satellite subscription and a connected device. It is recommended to test the app before using it outdoors. The app can be used to manage your service plan and can operate over the satellite network, a wireless connection, or cellular data on your phone. There are no additional charges for messages sent using a wireless connection or cellular data, but messages received may incur charges if delivered over both the satellite network and the internet. Standard text messaging rates will apply for your cellular data plan. If you do not have a subscription, the app can still be used to communicate with other app users over the internet (no login is required).

For your device to transmit messages and track points over the satellite network, it needs to have a clear view of the sky. If this is not the case, the device will continue attempting to send the information until it can establish a connection with satellites. To optimize the connection with satellites, it is recommended to orient the top of the device towards the sky.

ABOUT YOUR DEVICE

[INSERT IMAGE]

1. **Power button**
2. **Check in**
3. **USB charging port**
4. **SOS button (for emergency use only)**

Check In key	Check in activation	Press the 'Check in' key for 1 seconds, until the device buzzes. This triggers the predefined check in message to be sent. The app has a map feature that shows all of your sent and received check in locations.
Power/BT key	Power on (boot up)	3 second press to boot the device, the device will vibrate to indicate that boot up has started.
	Power off	3 second press powers off the device, the device will vibrate to indicate that power off has started.
	Enter BT pairing mode	From power on, press the button again to activate BT pairing mode. Status light flashes blue in this mode. (Note: This is only possible if not already paired to a device).
SOS key	Activate SOS	Hold SOS key for 5 seconds
	Cancel SOS	Hold for 5 seconds

Icons – Power/Check in/Satellite connectivity

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

Power (insert image here)	Device booted up and ready, but not paired	Blue flash 3 times slowly then off.
	BT pairing mode activation	Blue flash quickly remains active for 1 minute
	BT paired/connected	Blue solid for 5 seconds then off. The LED will be off after 5 seconds, so when the power key is pressed again, the LED will be on for 5 seconds to indicate the device is in the status of BT paired/connected.
	Battery low battery indication (10%)	Red flash once every 5 seconds for 20 seconds, repeats every 2 minutes
	Battery charging when device is on/off	Solid red
	Battery charged	Solid green
	User must pair with phone notification	Flash orange once every 5 seconds. This will persist until paired or battery runs out.

Check in (insert image here)	The 'check in' sent	Green on for 5 seconds then off
	'Check in' blocked	Red flash quickly for 5 seconds then off
	'Check in' failed due to network error/low signal	Red on for 5 seconds then off
	The message is in buffer (received and device is not paired to phone)	Green flash once every 10 seconds

Satellite (insert image here)	Not connected to the satellite	Flash red once every 10 seconds
	Connected to the satellite	Flash green 5 times when connection established, then flash green 3 times after 30 seconds to indicate puck is still connected.

SATELLITE MESSAGING

Your **motorola defy satellite link** can send and receive text-based messages via the Bullitt Satellite Messaging app when there is no mobile or Wi-Fi network. To use the service, you need to activate the service and have an active subscription.

ACCOUNT SETUP

- Go to app.bullitt.com to create your free Bullitt Satellite Messenger account.
- Input your mobile number you wish to use with Bullitt Satellite Messenger.
- A verification code is 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 A DEVICE AND CHOOSING A SATELLITE MESSENGER PLAN

- Satellite Connect enabled device. You can find this code printed on an insert inside the original packaging of your product.
- Enter the code displayed and select a plan from the satellite service packages displayed on screen.
- Complete checkout by entering your billing address, contact details and payment method – please note, a valid payment method is required for all packages regardless of any free trial period displayed.
- After successful completion your device is registered and ready to use on the Bullitt Satellite Connect network.

PROFILE

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

- Tap [icon] > Profile

CONNECTING TO SATELLITE

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- After successful completion your device is registered and ready to use on the Bullitt Satellite Connect network.

Your phone is configured to connect to satellites automatically when you lose cellular coverage. You can change this by swiping up from the Home Screen > Settings > Network & Internet > Satellite Mode.

There are three options:

- Satellite When Needed – This is the default and recommended setting.
- Satellite Only – This will disconnect your cellular and Wi-Fi connection. You can use this to test satellite coverage and to save battery in locations with no cellular or Wi-Fi coverage.
- Off – This disables the satellite radios.

To connect to a satellite, you need to either be outdoors in an area with no cellular or Wi-Fi coverage or enable Satellite Only mode (as shown above).

- Open the Bullitt Satellite Messaging app [App icon].
- Tap the icon [icon], top right of the screen.
- Hold the phone vertically in your hand and follow the instructions to connect to a satellite.

The globe in the top right of the screen turns green [icon] when you are connected to a satellite.

SENDING A MESSAGE IN THE BULLITT SATELLITE MESSAGING APP

- Tap [+ icon] 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 [icon]

Messages are limited to 140 characters. As you type your message you will see the [icon] 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.

NOTE: The app will always send messages over cellular or Wi-Fi if it can.

IMPORTANT NOTE: ANY MESSAGE SENT OR RECEIVED OVER 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, first you must select a recipient to send these messages to. In the Bullitt Satellite Messenger app:

- Tap [icon] > 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 the your GPS location and personal information.

IMPORTANT NOTE: THE INAPPROPRIATE OR FALSE USE OF SOS MESSAGES MAY RESULT IN INCURRING ADDITIONAL, AND POSSIBLY SUBSTANTIAL, LIABILITY CHARGES.

SENDING AN SOS

An SOS can be sent in two ways:

- Press and hold the physical orange key on the side of the device for five (5) secs.
- 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 on 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.

CANCELLING 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.

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

- a) Do not disassemble or open crush, bend or deform, puncture or shred
 - b) Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
 - c) Only use the battery for the system for which it is specified
 - d) Only use the battery with a charging system that has been qualified with the system per this document. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
 - e) Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
 - f) Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Only authorized service providers shall replace battery. (If the battery is non-user replaceable).
- g) Promptly dispose of used batteries in accordance with local regulations
 - h) Battery usage by children should be supervised.
 - j) Avoid dropping the device or battery. If the device or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
 - k) Improper battery use may result in a fire, explosion or other hazard.

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 gram 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

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 radiated 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 compliance 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 minimum distance 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 RECYCLING 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

UKCA 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/BT Pairing, SOS, Location Report
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 810H 501.5 Procedure II , 55°C(131°F),100hrs	Yes

Low Temperature MIL 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 810H 507.5 Procedure II: 0% to 95% - non-condensing humidity.Temperature cycled between 30°C(86°F) and 60°C(140°F): 240hour	Yes
Thermal ShockMIL 810H 503.5, Procedure I-30°C(-22°F)/75°C(149°F),Stays 30mins,42 cycles	Yes
Random Vibration MIL 810H 514.6 Procedure I: Category 4 Frequency Range:10Hz 500Hz, Vibration Level: 1.04 g r.m.s (Vertical-Axis), 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 810H 516.6 1.22M, 26drops	Yes
Salt Mist MIL 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
USB cable	Yes