blacklinesafety

G7 BRIDGE

Technical User Manual

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PORTABLE SATELLITE & CELLULAR BASE STATION

What is a G7 Bridge?
The G7 Bridge system is an employee safety monitoring solution that keeps you connected in remote locations outside cellular coverage. The system is comprised of two parts, the G7 Bridge portable satellite/cellular base station and the employee-worn Loner 900 or G7x safety monitoring device.

G7 Bridge is self-powered and portable, allowing you to quickly move it from one vehicle to another, such as from a truck to an all-terrain vehicle.

Equipped with GPS location technology, it can provide your organization with a simple alternative to elaborate fleet management systems. G7 Bridge can notify mass evacuations, connect you to monitoring personnel via two-way messaging, and account for you on a real-time map providing a reference point to manage the fastest emergency response to make a difference.

It has your back at all times, no matter your location.

BLACKLINE SAFETY NETWORK

How am I connected?
The Blackline Safety Network is the infrastructure used to monitor your safety. It is a communications system that includes cellular networks, satellite networks, Blackline Live web portal application, and your personal monitoring devices.

Each device requires an active service plan in order to connect to the Blackline Safety Network. Depending on your needs and requirements, there are various service plan options available such as 24/7 safety monitoring by Blacklines Safety Operations Center. Contact your organization's safety professional for more information regarding the details of your service plan.

BLACKLINE LIVE™ WEB PORTAL

What is Blackline Live?
G7 Bridge utilizes the cloud-hosted Blackline Live web portal to monitor and manage all your workers and devices. Your G7 Bridge can receive text messages from Blackline Live.

With Blackline Live's live map and real-time alerting, you can quickly locate and respond to a worker in distress. Real-time alerts show the device user on the map with the type of alert, that can aid the coordination of an efficient emergency response to an employee's precise location.

You can create and customize configuration profiles that determine how a device or a group of devices operates in the field. Similarly, alert profiles are set up to determine what contacts should be notified in the event of an incident and what response protocol monitoring personnel will follow to ensure your team gets the help it needs.

Blackline Live allows you to tailor user access depending on employee roles, including: employee, supervisor, administrator and monitoring team. This ensures that everyone has access to exactly what is required when it comes to your devices.

COMMUNICATION TECHNOLOGY

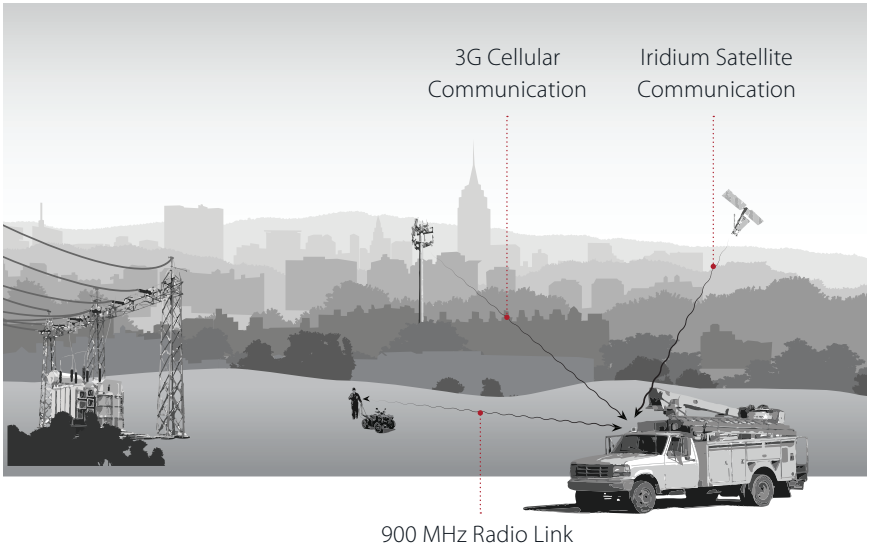
How does G7 Bridge communicate with my personal monitoring device?
G7 Bridge communicates with Loner 900 or G7x devices through an industrial quality 900 MHz radio link. Personal monitoring devices can operate up to 2 km away without line of sight, or more than 10 km hilltop to hilltop from G7 Bridge.

NOTE: Terrain, foliage, and buildings will affect the overall 900 MHz radio link range.

How does G7 Bridge communicate with the Blackline Safety Network?
One G7 Bridge can link up to five Loner 900 or G7x devices to the Blackline Safety Network through Iridium satellites or 3G cellular data, contingent on rage or availability.

G7 Bridge is equipped with an internal Iridium satellite radio and antenna that facilitates communication when outside the range of cellular networks. The transition between satellite and cellular is automatic and seamless.

When mounted to a vehicle, all-terrain vehicle, snowmobile, or boat, G7 Bridge must remain out in open sky, a minimum of 10 meters (10 feet) away from any buildings. This will help ensure that it is able to send and receive signals to satellites.

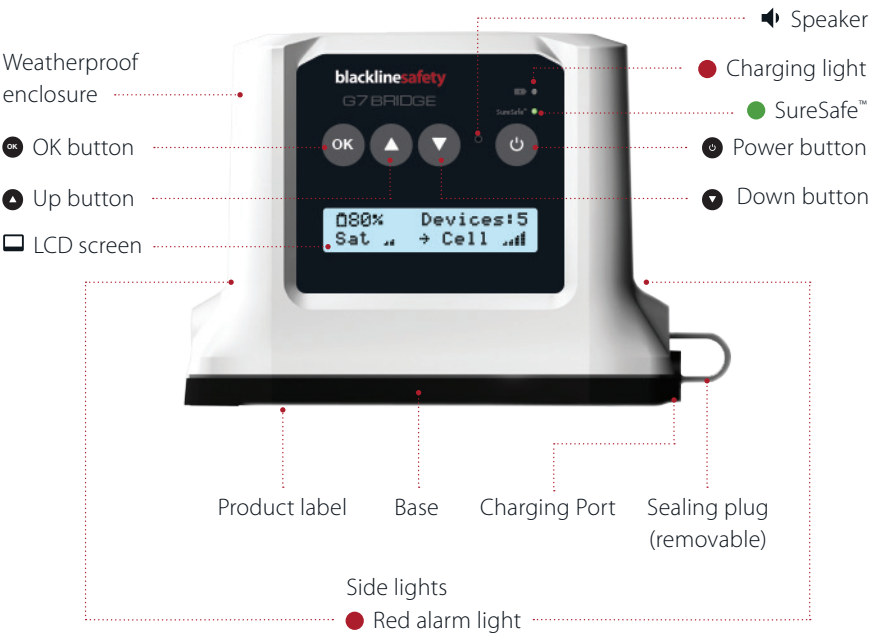


WHAT'S IN THE BOX

Your G7 Bridge comes with:

- G7 Bridge
- Sealing plug
- Magnetic mount
- Multi-purpose mount
- Adhesive foam pad
- Charging components
  - Charging cable
  - Wall charger
  - Vehicle 5V charger
- Quick reference wallet card
- Technical user manual

HARDWARE DETAILS



INTERACTION

BUTTONS

Interacting with your G7 Bridge is easy with the LCD display and a few buttons.

OK button
Press OK to enter the menu on the LCD screen and confirm a menu selection.

Power buttons
Press power button to turn on and off, and return to menu.

Up arrow buttons
Press up arrow to enter or navigate the menu.

Down arrow buttons
Press down arrow to enter or navigate the menu.

NOTIFICATIONS

SureSafe™

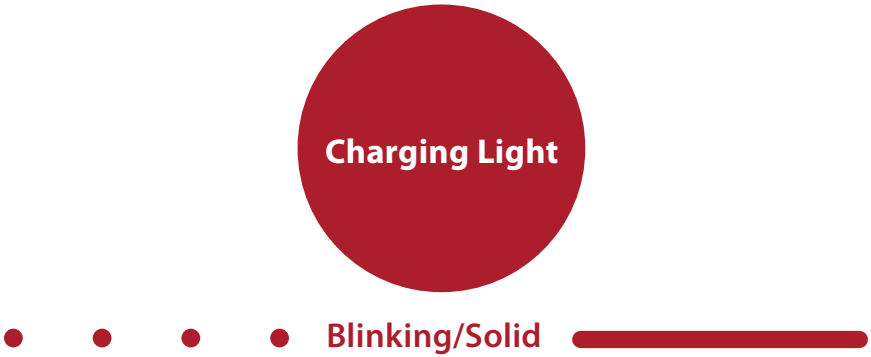
Are you Connected?
Your G7 Bridge lets you know your connection status.

Blinking
A blinking SureSafe green light indicates your G7 Bridge is connecting to the Blackline Safety Network.

Solid
A solid SureSafe green light indicates you're connected and being protected by the Blackline Safety Network.

CHARGING LIGHT

Charging Status
Your G7 Bridge lets you know your battery charging status. The more blinks during a blinking pattern means more battery life.



1 Blink Pattern
Charging and your battery level is between 0%-19%.

2 Blink Pattern
Charging and your battery level is between 20%-49%.

3 Blink Pattern
Charging and your battery level is between 50%-69%.

4 Blink Pattern
Charging and your battery level is between 70%-89%.

5 Blink Pattern
Charging and your battery level is between 90%-99%.

Solid
Fully charged.

TeamAlert™ MUSTER ALARM

Your G7 Bridge has a message for you.
Go back to your G7 Bridge and read the G7 Bridge screen.

The red lights on the side of your G7 Bridge will blink when a message has been received by monitoring personnel. Read the information on your G7 Bridge screen. Press the OK button to let G7 Bridge know you have read the and clear the message. G7 Bridge will let you know that it is currently in a muster alarm state (Muster Started). Press the OK button to enter the main menu, and press the OK button again to stop the muster alarm from the menu selection.

Sound
TeamAlert muster alarm sound – A constant alarm sound.

OPERATING

REQUIREMENTS

What do I need for my G7 to operate?

- Active service plan
- Sufficient battery level when portable, or available vehicle power connected via power outlet, USB, cigarette socket or hardwire cable
- Line of sight from G7 Bridge to Iridium communication satellites, or sufficient cellular network signal to communicate
- Loner 900 or G7x devices within range of G7 Bridge radio link

NOTE: If G7 Bridge is in a very low charging state, it may take up to an hour of charging before the red charging light begins to blink.

CHARGING

How do I charge my G7 Bridge?
Remove the sealing plug from the micro USB charging port on G7 Bridge. Insert micro USB cable into charging port.

A blinking red light beside the battery icon will indicate your G7 Bridge is charging. The LCD screen, and a solid red light will let you know when the device is fully charged.

It is recommended that you charge your G7 Bridge for 10 hours. Once charging is complete, remove the power cable and replace the sealing plug.

NOTE: If G7 Bridge is in a very low charging state, it may take up to an hour of charging before the red charging light begins to blink.

How often do I need to charge my G7 Bridge?
If G7 Bridge is being used as a portable base station and not hardwired to a vehicle's power system, it will need to be charged regularly based upon the amount of use.

The internal rechargeable battery will provide up to 44 hours of continuous run-time at room temperature.

G7 Bridge is fully operational while being charged.

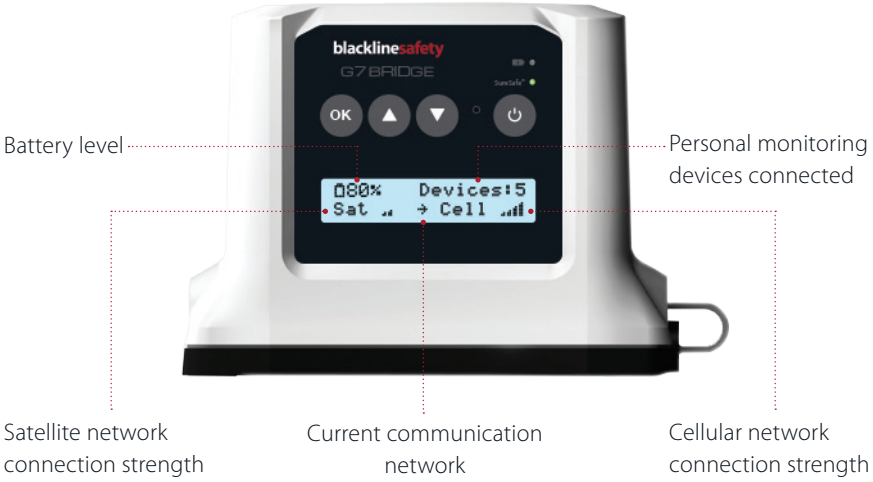
POWER ON

How do I turn on my G7 Bridge?
Press the power button, and wait for the blinking SureSafe green light to turn solid. It takes approximately 2 minutes for G7 Bridge to connect to the Blackline Safety Network. Once connected, the green light will stay on and your safety is being monitored.

NOTE: Sufficient battery power is required to connect to the Blackline Safety Network.

How do I connect my personal safety device?
Your G7 Bridge has been pre-programmed and set up to specifically pair with your personal safety monitoring devices. Pairing is as easy as pushing a button. Ensure that your G7 Bridge is turned on and connected to the Blackline Safety Network, then press the power button on your Loner 900 or G7x device. Wait for the blinking SureSafe green light on your personal safety monitoring device to turn solid. Once connected, the green light will stay on and your safety is being monitored.

READING THE LCD SCREEN



READING THE MENU

FEATURES

TeamAlert MUSTER

What is a TeamAlert Muster?
A TeamAlert muster is an alarm sent to all associated personal monitoring devices to return back to the G7 Bridge. A TeamAlert muster can be initiated from the G7 Bridge itself, or when monitoring personnel sends G7 Bridge a message.

How do I initiate a TeamAlert Muster from G7 Bridge?
In the main menu, use the up or down arrow buttons to navigate to TeamAlert muster, and press the OK button. Use the down arrow button to navigate to Start, and press the OK button. G7 Bridge will go into a TeamAlert muster alarm and display Muster Started on the LCD screen. All personal monitoring devices connected to this specific G7 Bridge will go into a personal warning alarm.

How do I silence a TeamAlert Muster on G7 Bridge?
In the main menu, use the up or down arrow buttons to navigate to TeamAlert muster, and press the OK button. Use the down arrow button to navigate to Stop, and press the OK button. Alternatively, if you initiated a TeamAlert muster, your G7 Bridge may already be in the TeamAlert submenu where you can select Stop and press the OK button.

NOTE: Silencing the TeamAlert muster will stop the alarm on both the G7 Bridge and all connected personal monitoring devices.

MESSAGES

How do I receive a message?
G7 Bridge can receive messages from monitoring personnel. When there is an incoming message, your G7 Bridge will inform you with a TeamAlert Muster alarm. The message will appear on the LCD screen.

Press the OK button to let G7 Bridge know you have read the and clear the message. G7 Bridge will let you know that it is currently in a muster alarm state (Muster Started). Press the OK button to enter the main menu, and press the OK button again to stop the muster alarm from the menu selection.

How do I view the last received message?
You can view the last received message in Message Inbox. When a new message is received, the previous message is deleted. In the main menu, use the up or down arrow button to navigate to Message Inbox, and press the OK button. Press the down arrow button to view the last message, and press the OK button to view the full message.

How do I send a message?
You can choose from a list of ten pre-programmed messages to send to monitoring personnel. In the main menu, use the up or down arrow button to navigate to Send Message, and press the OK button. Press the up or down arrow buttons to navigate the pre-programmed message options, and then press the OK button to send. The LCD screen will confirm that your message has been sent.

NOTE: To make changes to the pre-programmed messages, please contact our customer care team.

SETTINGS

PAIR NEW DEVICES

To pair a personal safety monitoring device that has not been setup to connect with your G7 Bridge, please contact our customer care team.

DIAGNOSTIC TOOLS

Diagnostics contains information about the firmware version and advance satellite information. This information is not required for typical operations.

SLEEP MODE

What is sleep mode?
To maximize battery life, G7 Bridge will go into sleep mode two minutes after the last button was pressed. Sleep mode will turn off the LCD screen to reduce power consumption.

How do I wake up G7 Bridge from sleep mode?
Press any button to wake the LCD screen from sleep mode.

NOTE: If the LCD screen does not wake up, the battery may be depleted and will require charging.

POWER OFF

How do I shut down?
Always ensure that you turn off your personal safety monitoring device before turning off G7 Bridge. When G7 Bridge is off, employees using a Loner 900 or G7x will no longer be monitored.

First, press and hold the power button on your Loner 900 or G7x. The device will go into shutdown sequence, once all the lights and vibrations have stopped you have been logged off from the Blackline Safety Network. Second, press and hold the power button on the G7 Bridge until it goes into shutdown sequence. Your safety is no longer being monitored

NOTE: If you are in a challenging environment that makes communication difficult, G7 Bridge will extend the shutdown sequence up to 20 minutes until priority messages are transmitted over the cellular or satellite network.

MOUNTING

GENERAL MOUNTING

When mounting G7 Bridge, it is important to position it with an unobstructed line of sight to the sky to communicate with the satellite system. Ensure it is placed as high as possible for maximum distance of the 900 MHz radio link between G7 Bridge and connected personal monitoring devices.

G7 Bridge is completely portable and can be permanently or temporarily installed depending on your needs and requirements. It comes with two mounting options, a magnetic mount and a multi-purpose mount.

MAGNETIC MOUNT

What is a magnetic mount?
The magnetic mount can be used to attach G7 Bridge to the roof of a vehicle. It contains two rare earth magnets providing 224 lb of mounting force.

NOTE: Individuals with pacemakers or other medical devices and mechanical implants should use caution when handling the magnetic mount. Strong magnets can damage hard drives, credit cards, ID cards, and similar devices that use magnetic media.

MULTI-PURPOSE MOUNT

What is a multi-purpose mount?
A multi-purpose mount can be used to attach G7 Bridge on a non-magnetic surface.

To use the double-sided adhesive provided, ensure the surface is clean, remove the backing from the adhesive foam pad and stick to the bottom of the multi-purpose mount. Remove the second adhesive backing and firmly press the multi-purpose mount onto flat surface. For best results, allow 24 hours for adhesive bond to set.

Alternatively, you can attach the multi-purpose mount to a surface with a polyurethane industrial adhesive, tie wraps, screw fasteners, or hook and loop fasteners. For these optional methods, the multi-purpose mount has 2 tie-wrap slots and 8 screw hole locations.

NOTE: The multi-purpose mount is fabricated from glass-filled nylon. If using industrial adhesive, confirm it is appropriate for both nylon and your mounting surface.

How do I attach G7 Bridge to the magnetic or multi-purpose mount?

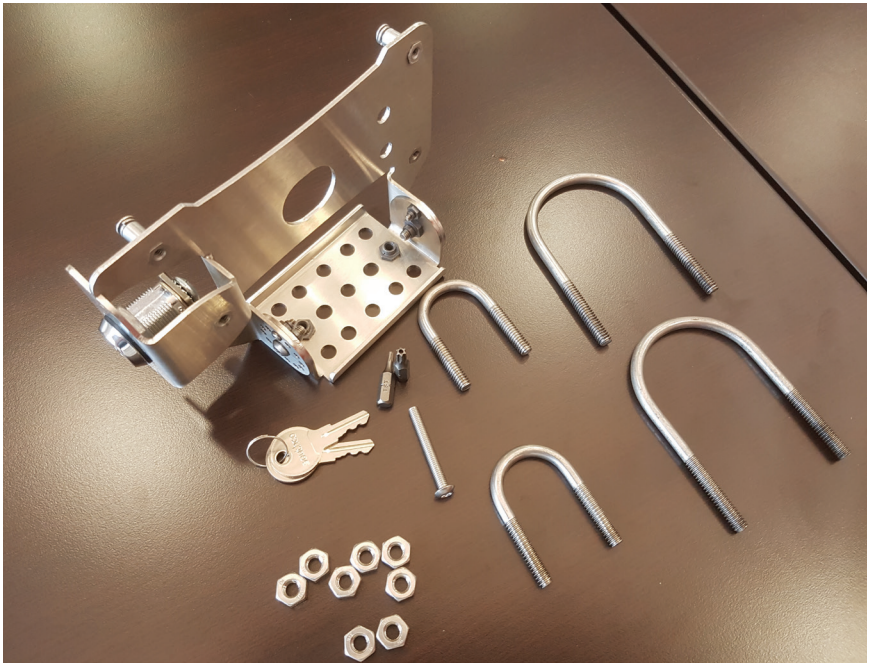
Slide bottom of G7 Bridge at an angle onto the base of the magnetic or multi-purpose mount, then snap G7 Bridge into the base release clip.

How do I remove G7 Bridge from the magnetic or multi-purpose mount?

To remove G7 Bridge from the mount, use a screwdriver, key, or similar tool to push the mount release clip towards the G7 Bridge.

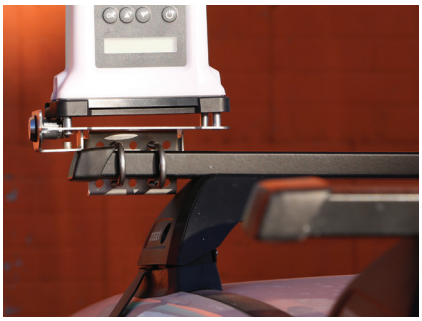
OPTIONAL MOUNTING ACCESSORIES

EXTERNAL BRIDGE MOUNT (NOT INCLUDED)



The external bridge mount can be used to attached G7 Bridge to a vehicle roof rack, bed rack, tool box, and pole or post. It comes with different u-bracket sizes for easy attachment, and a secured locking mechanism with a key for additional security.

How do I mount to a roof rack, bed rack, or pole/post?



Screw the multi-purpose mount to the external bridge mount plate. Attach the external bridge mount to roof rack, bed rack or pole/post using the appropriate u-bracket size. Slide and snap G7 Bridge into the multi-purpose mount, and lock external bridge mount with key for additional security.

How do I mount to a tool box?

G7 Bridge can be mounted to a truck bed tool box if it has an unobstructed line of sight to the sky. Screw the multi-purpose mount to the external bridge mount plate, and screw the plate to the side of the tool box. Slide and snap G7 Bridge into the multi-purpose mount, and lock external bridge mount with key for additional security. Ensure the LCD screen is facing outwards for operation.

NOTE: Avoid attaching external bridge mount to lid, or where the tool box would open.

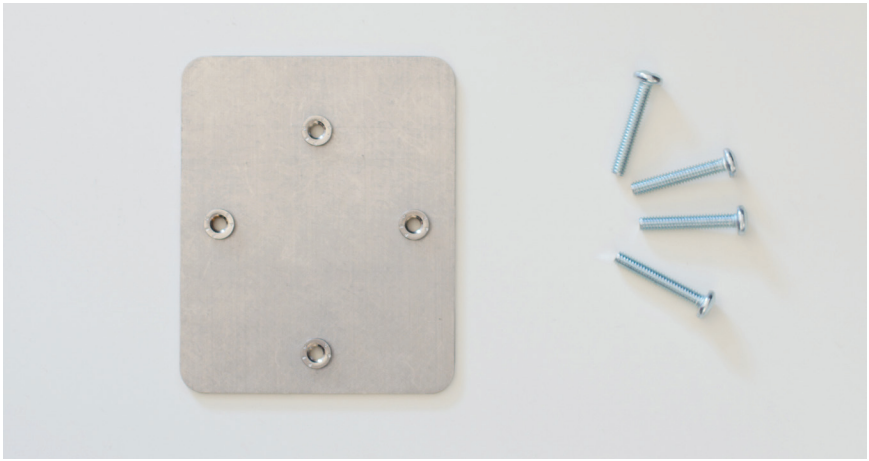
EXTERNAL ANCHOR POINTS (NOT INCLUDED)

External anchor points can be used with an external bridge mount to attach G7 Bridge to a truck bed rail with pop outs.

How do I mount to a truck bed rail?

Screw the anchor point into the truck bed rail pop out, and then attach the external bridge mount to the ancho point using screws. Screw the multi-purpose mount to the external bridge mount plate. Slide and snap G7 Bridge into the multi-purpose mount, and lock external bridge mount with key for additional security.

INTERNAL DASH PLATE MOUNT (NOT INCLUDED)



G7 Bridge can be installed directly to a dash tray, under a front windshield of a vehicle if the glass is slanted using a dash plate mount. It must not block the vision of the driver, impair the driver's operation of the vehicle, or interfere with safety systems such as air bags.

How do I mount to a dash?

Remove the dash tray or portion of the dash you want to mount to. Screw the multi-purpose mount to the top of the dash, then screw the dash plate under the dash to secure the mount in place. This is best suited for a F-150 with removable dash tray to avoid drilling directly into vehicle dashboard.

Alternatively, for easy removal of G7 Bridge, the dash plate can be screwed directly to the top of the dash, and the magnetic mount can be used to magnetically attach the dash plate.

OPTIONAL HARDWIRING ACCESSORIES

G7 Bridge has a 44-hour battery life, and can be charged using a regular power outlet, USB port, or cigarette socket in a vehicle. However, it may be beneficial to hardwire G7 Bridge to your vehicle power system. Prior to installation, consider the following:

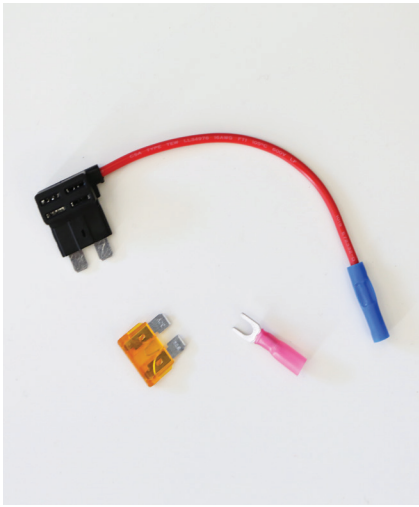
- Location near 12 or 24 VDC power
- Power circuit controlled by ignition key to avoid battery drainage when vehicle is not in use
- G7 Bridge consumes up to 1.0A of peak current, ensure circuit can handle additional load

EXTERNAL HARDWIRE KIT (NOT INCLUDED)

The external three-wire hardwire kit is used to hardwire into vehicles 12/24 VDC power system. Wiring can be done through center/rear brake light, or another external power source. Ensure cable is properly grounded.

NOTE: Hardwire cable is 6 ft in length. Depending on required length, additional wire may need to be added to cable.

INTERNAL HARDWIRE FUSE EXPANDER (NOT INCLUDED)



The three-wire hardwire kit and fuse expander is used to hardwire into vehicles 12/24 VDC power system. Plug fuse expander into fuse box located on driver's side, and attach hardwire kit once fuse expander is in the panel. Ensure cable is properly grounded. Cable routing can be done behind headliner on driver's side and out the rear brake light to the G7 Bridge on the roof, toolbox, or on truck bed rail if close to back windshield.

FIRMWARE UPDATES

OVER-THE-AIR (OTA) FIRMWARE UPDATES

How does G7 Bridge get updated?
With 2G/3G cellular wireless, there are no Wi-Fi networks, infrastructure or complicated Bluetooth connections. G7 Bridge is completely self-contained and capable of over-the-air (OTA) updates when brought into cellular range.

Our Customer care team will complete OTA firmware updates for your G7 Bridge. If G7 Bridge cannot be removed from satellite only reception, contact Customer Care to receive a firmware update kit.

If there is anything specific about the new update that you need to know, a team member will contact you directly. If you hae any questions, please contact Customer Care.

G7 BRIDGE CARE

WEATHER-SEALING PLUG

Please ensure the sealing plug is correctly inserted into G7 Bridge at all times when not charging or when not connected to the vehicle hardwiring cable. This will ensure G7 Bridge is able to withstand the elements at all times and provide reliable operation. Failure to have the sealing plug installed may permit water or other fluids to enter that may cause an electronics failure, which is not covered under warranty.

SPECIFICATIONS

DETAILED SPECIFICATIONS

Size & Weight
Size: 73 mm x 107 mm x 141 mm (2.87" x 4.21" x 5.55")
Measurements do not include mount.
Weight: 540 g (19.04 oz)

Buttons & Indicator Lights
Power button: Power on/off
Red light plus buzzer: Safety alert
Green SureSafe™ light: Blinking (powered), continuous (connected)
LCD Screen: Display menu, battery status, backhaul link status
Menu Navigation buttons: Up, Down, OK

User Notification
Indicators: Acoustic buzzer, indicator lights LCD
Screen: display notifications/messages from backend

Wireless Communication
Radios: UMTS 800/850/900/1900/2100; Quad-band GSM/GPRS 850, 900, 1800, 1900; Iridium Satellite (1621 MHz); ISM band radio (915 MHz)
900 MHz Radio: Americas: 902 – 928 MHz Australian/New Zealand: 916 – 927 MHz, 1 Watt
Antenna: Internal penta-band; Patch; Printed Bidirectional communication

Location Technology
GPS Radio: 48 channel high sensitivity
GPS Accuracy: ~5 m (16 ft) outdoors, ~50 m (165 ft) indoors
GPS Real-time location turnaround time: ~20 seconds

900 MHz Radio Link Range
General use: up to 2 km
Hilltop to hilltop: 10+ km
Terrain, foliage, and buildings will affect overall 900 MHz radio link range

Alert Messages
Emergency/Low battery/Power off/Text messages

Mobile Messaging Methods
Remote messaging by email or SMS

Power & Battery
Rechargeable Li-ion battery: 6800 mAh capacity
Battery life: 44 hours @ 20°C (68°F); 50 hours @ -20°C (-4°F); 14 hours @ -40°C (-40°F); *It is recommended that the hard wire kit is used anytime below -20°C*
Charging connector: Micro USB

Environmental
Storage temperature range: -30°C to 75°C (-22°F to 167°F)
Operating temperature: -20°C to 55°C (-4°F to 131°F)
Charging temperature: 0°C to 45°C (32°F to 113°F)
Ingress Protection: Designed to meet IP65

Regulatory Compliance
FCC, IC, RCM, RoHS
Contains: FCCID: XPYICGMSNNN, Q639603, KQNMLINK900, IC: 8595A-ICGMSNNN, 4629A-9603, 2361A-MLINK900

Device Requirements
Activated service plan, satellite communications requires line-of-sight to satellites, GPS for locating, safety monitoring requires active 900 MHz and satellite or cellular connections

Warranty
One year limited factory warranty

Blackline Live Web Application
Cloud-hosted web application, hierarchical account structure meets need of any organization, user roles (read only, alert management, supervisor and admin users), device configuration profiles, alert management profiles, employee address book, live location mapping, custom floor and site plans, reporting includes complete alert management details, device use compliance, calibrations and bump testing

Wireless Coverage, Activated Service Plans
Cellular coverage: Nearly 150 countries
Satellite coverage: Global
900 MHz operation: ITU Region 2, Australia, New Zealand
Service plan options: Contact Blackline

SAFETY PRECAUTIONS

DANGER

Do not use G7 Bridge in areas classified as hazardous locations, where there is risk of explosion due to presence of gas, vapor, or dust. G7 Bridge is not certified as intrinsically safe.

Do no place G7 Bridge in or near open flame.

G7 Bridge is shipped with strong magnets. Use caution when handling these magnets to prevent personal or property damage. Strong magnets can damage computer hard drives, credit cards, floppy disks, magnetic ID cards, and similar devices that use magnetic media. Individuals with pacemakers or other medical devices and mechanical implants should use caution when handling the magnets that accompany G7 Bridge.

WARNING

Do not operate Blackline Safety products where you are not able to operate your mobile/cellular phone.

When in a hospital or other health care facility, observe the restrictions on the use of mobile devices, such as cellular phones.

Switch Blackline Safety products off before boarding an aircraft and make sure that it cannot be inadvertently turned on.

Electrical equipment may be hazardous if misused.

Do not operate or store Blackline products outside their specified operating temperature, storage temperature, or humidity rating. Consult the specifications section for more information.

Blackline products may contain an internal lithium-ion battery pack. Seek advice from your local electronics recycling authority regarding the disposal of your device. Do not dispose Blackline products in your household trash.

LEGAL NOTICES

Information in this document is subject to change without notice. This document is provided "as is" and Blackline Safety Corp. ("Blackline") and its affiliated companies and partners assume no responsibility for any typographical, technical or other inaccuracies in this document. Blackline reserves the right to periodically change information that is contained in this document. However, Blackline makes no commitment to provide any such changes, updates, enhancements or other additions to this document to you in a timely manner or at all.

Warranty

Your G7 Bridge is warranted against defects in materials and workmanship for up to one year from date of purchase. For further details regarding your Blackline warranty, please refer to your Terms and Conditions of Service. Visit http://www.blacklinesafety.com for more information.

FCC Notice

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. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: This equipment 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 further assistance.

FCC Radiation Exposure Statement

This device is only authorized for use in a mobile application. At least 20 cm of separation distance between the G7 Bridge device and the user's body must be maintained at all times.

Industry Canada Notice

This device complies with Industry Canada licence-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.

Industry Canada Radiation Exposure Statement

This equipment compiles with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the G7 Bridge and your person.

SUPPORT

LEARN MORE

Visit support.BlacklineSafety,com to find support and training materials for G7 Bridge.

CUSTOMER CARE

For technical support, please contact our customer care team.

North America (24 hours)
Toll Free: 1-877-869-7212 | support@blacklinesafety.com

United Kingdom (8am-5pm GMT)
+44 1787 222684 | eusupport@blacklinesafety.com

International (24 hours)
+1-403-4451-0327 | support@blacklinesafety.com

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