

STEP 8: SEND AND RECEIVE SATELLITE MESSAGES

Confirm all cables are properly connected. Refer to Step 3 “Verify App Connection”

On the Device page, confirm that signal indicator shows at least three bars, ideally 4 or 5 bars. If less than three bars are visible for more than sixty seconds, confirm good visibility to the sky in all directions.

With an adequate signal level, the Iridium Edge Demo App should start reporting at regular intervals.

Go to the Chat page, type a test message and press “Send”. Wait till the message is timestamped and transmitted. These messages can be read and replied to on the demo portal.

Drive the vehicle at a slow speed (<40km/h, 25mi/h) to ensure the Iridium Edge remains safely mounted to the vehicle. Drive vehicle for a suitable duration to allow the App to send the expected number of messages at two-minute intervals. **Observe all driving laws and safety guidelines in your jurisdiction.**

Upon completion, disconnect all cables and power.

STEP 9: CONFIRM SATELLITE PERFORMANCE

With a browser, log into the Mapping Portal (iridiumedgedemo.com) with the same credentials used to create the account.

In order to send messages to the Iridium Edge, select the “Send Message” command from the pulldown list by the mail envelope and enter the desired message text.

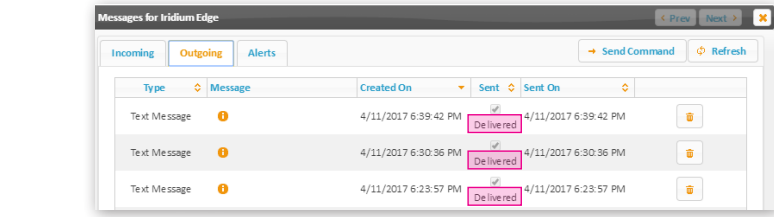
Once the “Send Message” button is pressed, the Mapping Portal updates the display to show that the “Message was Successfully Sent” to the Iridium gateway. Messages will appear on the Iridium Edge Demo App once the device successfully connects to the network.

See all previous incoming messages and the status of the outgoing text messages by selecting the “Mail Envelope” on the left of the pulldown arrow. The Incoming tab lists all the text messages from the Iridium Edge. The Outgoing tab lists all the text messages to the Iridium Edge.

The Alerts tab is not required for the evaluation.

In the Outgoing tab, the Sent status is “Delivered” if the Iridium Edge acknowledged receiving the message. Otherwise, the Sent status is “Submitted” meaning the message is at the Iridium Gateway and not yet transmitted to the Iridium Edge. This window is not automatically refreshed if the Iridium Edge receives the message. Update the status by using the “Refresh” button.

STEP 9: CONFIRM SATELLITE PERFORMANCE (Continued)



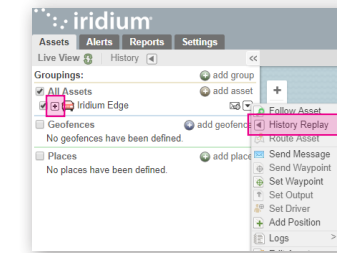
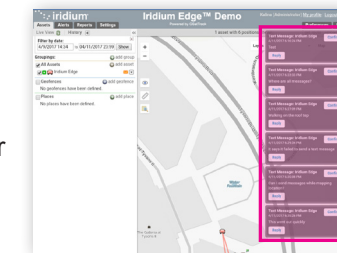
The times in the Mapping Portal are in UTC, not in local time.

Only the “Assets” tab is required to verify the Iridium Edge’s performance. The other tabs are advanced functions, not required for evaluation of the Iridium network.

Inside the “Assets” tab, only the “All Asset” grouping is required. The groupings of “Geofences” and “Places” are advanced functions.

The portal displays all messages from the Iridium Edge until the “Confirm” button is pressed.

Select the “History Replay” command to show all messages from the Iridium Edge Demo App. Once the “History Replay” has been selected, the [+] button can be alternatively selected to display a list of the position reports received from the Iridium Edge.



STEP 10: USE THE SERIAL LOG

The Serial Log screen of the Iridium Edge displays

- Demo Application version
- AT commands and diagnostic messages

All AT commands and diagnostic messages are automatically saved to an internal file.

All AT commands and diagnostic messages are timestamped. The timestamps are in Universal Time Coordinates (UTC), not in local time. UTC provides a global time reference, independent of where the Iridium Edge evaluation takes place.

The Serial logs can be shared and emailed as an attachment containing either AT commands, diagnostic messages or a combined file with both AT commands and diagnostic messages.

STEP 11: COMPLETE EVALUATION

Congratulations on completing your evaluation of the Iridium Edge.

If you are interested in continuing to the next step and develop with the Iridium Edge, contact Iridium at iot_sales@iridium.com.

If you qualify as a direct Iridium VAR, Iridium will work with you and provide you with guidance to start development. Alternatively, Iridium will refer you to an existing Iridium partner. In either case, you can continue your development with your Iridium Edge Demo unit.

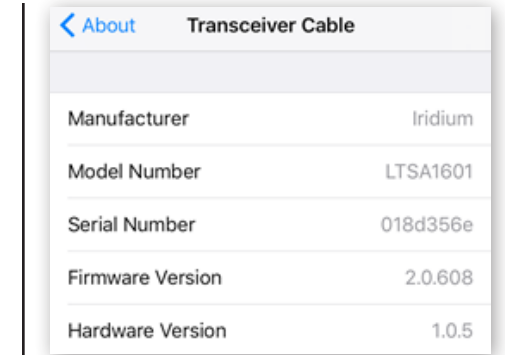
TROUBLE SHOOTING - DEVICE NOT CONNECTED

PROBLEM: “Connected” is not displayed on the Device screen.

SOLUTION	EXPLANATION
Confirm cables are connected properly (Refer to Step 2.)	Confirm the three connections <ul style="list-style-type: none">▪ Iridium Edge to Breakout cable▪ Breakout cable to power supply▪ Transceiver cable to Breakout cable
Confirm power is present	Confirm that the AC outlet is functional. Use the Automotive Power Adapter as an alternative way to verify power cables are working properly.

Confirm iOS recognizes the serial cable.

When the Transceiver Cable is inserted into the iPhone, the Transceiver Cable should appear in the list under Settings/General/About. After selecting the Transceiver Cable, the iPhone should display its details as per the adjacent figure. If the Transceiver Cable does not appear, reset the iPhone and recheck.



TROUBLE SHOOTING - LOW SATELLITE SIGNAL

PROBLEM: On the Device screen of the Iridium Edge Demo App, (Step #3) the signal strength indicator does not show more than 3 bars. As a result, the Iridium Edge will not transmit any messages.

SOLUTION	EXPLANATION
Confirm the Iridium Edge is mounted flat with the logo facing directly upwards.	The Iridium Edge should see the whole sky.
Confirm the Iridium Edge can see the whole sky, 360 degrees in all directions.	The sky and line of sight to Iridium satellites, should not be blocked by objects located above the Iridium Edge.
Confirm the Iridium Edge is installed outdoors.	The Iridium Edge is not designed for indoor operation. The Iridium Edge will work through glass but not through metallized glass, which is commonly found in many office buildings.

QUESTIONS

If you have any technical questions, please contact Iridium at datasupport@iridium.com.


Before contacting Iridium, please have the Serial log files containing both AT commands and diagnostic messages available.

Iridium Edge®

Demo Kit | Quick Installation Guide



12/18 ©Copyright 2017-2018 Iridium Satellite LLC and its affiliates. All rights reserved. Iridium® and the Iridium Logo are registered trademarks, and Iridium Edge® is a trademark of Iridium Satellite LLC and its affiliates. All other trademarks, service marks and logos are the property of their respective holders, which have not endorsed, sponsored or have been otherwise affiliated with Iridium.

 Prior to using the Iridium Edge® read and understand the Iridium Edge User Manual including the safety warnings and information. Failure to do so could result in serious injury or death.