

SureCall UltraWideBand 5G C-Band Signal Booster User and Installation Guide

Version 2.4

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Introduction and Overview

Product Overview

SureCall's UltraWideBand is a signal booster for C-Band 5G network deployments. UltraWideBand can quickly, easily, and economically extend the reach of your C-Band 5G and fill in coverage gaps inside buildings.

Integrated Network Protection Technology™ (NPT) ensures no signal degradation or interference from the signal booster.

Package Contents

The packaging contains the following items:

1. UltraWideBand 5G C-Band Signal Booster Unit (and mounting bracket)
2. Power supply
3. Donor antenna and mounting hardware
4. 4 x Server antennas and mounting hardware
5. 2 x 3 ft cable, 4.3-10 Male to N-Male connectors
6. 10 x connectors, 4.3-10 Male
7. Bluetooth IoT antenna
8. 3-year IoT service
9. 3-year warranty

Additional Items Needed

- Cable
- Cable connectors
- Splitters
- Diplexers
- Pole mount for external antenna(s), 1.5"-2" diameter

Key Features and Benefits

- Rapid deployment to extend coverage area of gNB or fill coverage gaps
- Low-cost hardware and installation
- No fiber or any other additional spectrum resources required for backhaul
- Low power consumption (< 35 watts)
- Easy maintenance
- Features a remote monitoring/management system to ensure optimal operation and make any necessary adjustments
- Balances coverage and capacity
- Balances uplink and downlink
- Network Protection Technology™ (NPT)
- Includes such critical functions as:
 - Automatic Gain Control (AGC)
 - Oscillation detection and prevention
 - High linearity

How it Works

UltraWideBand extends the reach of 5G base stations inside large buildings to easily fill coverage gaps and deliver superfast data speeds without the need for fiber backhaul. It is designed to deploy quickly and economically inside offices, enterprise, and commercial spaces to significantly expand and improve indoor coverage. It helps with one of the biggest challenges for 5G C-band networks by providing sufficient coverage and overcoming both natural and man-made obstructions (cement walls, e-glass windows, metal roofs) that block signal between the base station and cellular devices.

Regulatory, Legal and General Caution

SURECALL ULTRAWIDEBAND 5G C-BAND SIGNAL BOOSTER
SC-5G-CB
FCC ID: RSN-UWBCBAND
Multiple patents pending

Trademarks

SureCall is a registered trademark of SureCall Inc. All other trademarks and product names mentioned herein are the property of their respective owners. The information contained herein is subject to change without notice.

Copyright Notice

This document is copyrighted. No part of this document may be reproduced in any form without the written permission of the copyright owner.

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Required Installation Equipment

Brackets, mounting accessories and other installation material or equipment specified by SureCall in the UltraWideBand product information documentation must be used and SureCall installation instructions be complied with. In addition, it must be observed that specific environmental conditions that the UltraWideBand unit becomes exposed to, such as icing, heat, dust, dynamic stress, can result in the breakage of a UltraWideBand unit or its mounting accessories and even cause the UltraWideBand unit to fall to the ground. These facts, information and circumstances must be considered and properly taken into account during the site planning process and adhered to for installation and operation of the UltraWideBand unit. SureCall expressly disclaims any responsibility or liability arising out of failures in this regard.

Installation Environments to Avoid

The UltraWideBand unit is designed for indoor use. To ensure optimal operation, avoid the following:

- Hot microclimates caused by, for example, heat radiated or reflected from dark or metallic walls or floors
- Large glass or concrete surfaces
- Avoid radio interference by keeping the area directly in front of the antenna clear of the following:
- Metal surfaces or objects such as railings, ladders, or chains
- Equipment generating electromagnetic fields, for example, electric motors in air conditioners or diesel generators

Important Safety and Regulatory Information



CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY SURECALL WILL VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

FCC Warning

WARNING: This is NOT a CONSUMER device.

It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS.

You **MUST** have an FCC LICENSE or the express consent of an FCC Licensee to operate this device.

Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

Use of unauthorized antennas, cables, and/or coupling devices not conforming with ERP/EIRP and/or indoor-only restrictions is prohibited.

- Home/personal use is prohibited.

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

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 help

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.

RF Exposure Statement

This device must be professionally installed. The antenna(s) must be installed such that a minimum separation distance of at least 1 m is maintained for outdoor use [antenna gain considering the cable loss : SISO (10 dBi), MIMO (13 dBi)] and a minimum separation distance of at least 1 m is maintained for indoor use [antenna gain considering the cable loss : SISO (2dBi), MIMO (5 dBi)] between the radiator (antenna) and all persons at all times . This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Follow all safety precautions in this manual. This information is designed to prevent personal injury, equipment malfunction, and/or radio interference. You are responsible for ensuring a safe installation.

Your installation may require working in high locations such as roofs and/or ladders. Follow applicable safety regulations and best practices to avoid falling. Take care not to drop objects from any high area. Cordon off ground areas directly below the section of roof you are working on, or below your ladder whenever possible.

In addition, as a qualified installer, you are responsible for knowing and following all applicable codes and regulations and for obtaining all required permits and inspections.

Always use appropriate personal protective equipment such as goggles, gloves, hard hats, etc. as needed, and as required. Failure to exercise caution when working in high areas could cause a fall and personal injury.

Damage to Equipment

Use of unauthorized antennas, cables, and/or coupling devices not conforming with ERP/EIRP and/or Indoor-only restrictions is prohibited.

Note: If the gNB unit is physically damaged due to environmental conditions, it may impact performance of the repeaters. The repeaters require the gNB to operate at full power in order to provide the maximum boosted signal.

Painting the components may adversely affect the repeaters' ability to operate in full power in order to provide the maximum boosted signal.

This product requires a surge protector device (SPD) or surge arrester as part of the installation to address transient over-voltages exceeding Overvoltage Category II, 2500 Vpk.



RF SAFETY WARNING: ANY ANTENNA USED WITH THIS DEVICE MUST BE LOCATED AT LEAST 8 INCHES FROM ALL PERSONS.



NOTE: TRANSPORTATION AND STORAGE MEETS LOW TEMPERATURE, HIGH TEMPERATURE, AND HUMIDITY REQUIREMENTS PER ATIS-06000 10. THE SIGNAL BOOSTER IS RATED -40C TO +70C DEGREE FOR STORAGE TEMPERATURE.

Getting Started

Components

The UltraWideBand signal booster has two primary components – the booster unit and its mounting bracket. The Booster Unit will be connected to a Donor Antenna and one (or multiple) Server Antenna(s), the Donor Antenna receives the signal from a gNB, sends it to booster unit and boosts the signal there, then delivers it to your chosen area through the Server Antenna(s). Images and details of both appear below.

The Booster Unit (BU)



Figure 2 - Booster Unit (front side and bottom) and with mounting bracket

Booster Unit characteristics:

Mounting type supported: Wall-mount

Donor Antenna



Figure 3: Donor Antenna

Donor Antenna characteristics:

Mounting type supported: Pole mount

Server Antenna Option A



Figure 4: Server Antenna option A

Server Antenna characteristics:

Mounting type supported: Ceiling mount

Server Antenna Option B



Figure 5: Server Antenna option B

Server Antenna characteristics:

Mounting type supported: Ceiling mount

Preparing for Installation

For each UltraWideBand signal booster, there are two critical preparatory steps.

Verify Your Position. Make sure your chosen outside position is in a line of sight with your nearest C-Band 5G signal source and that there are no trees or other signal obstructions. Also, ensure that your chosen position receives a strong, clear C-Band 5G signal. In some cases, positions in line of sight with a C-Band 5G gNB antenna are at an angle that cannot receive a sufficiently strong signal.

Prepare for Power. Make sure your chosen location has been wired for accessible power at 28 VDC (supporting power level <35W) for your C-Band signal booster so that once in place, it may be powered on.

C-Band 5G Signal Booster Overview

There are two main steps for installing your UltraWideBand signal booster – mounting and applying power (note: aiming the Donor and Server antennas is part of system installing, but not part of Booster installation). You should attach the included IoT/Bluetooth antenna to the unit to the port labeled “IoT” as well.

1. 28VDC Power
2. IoT Antenna Connection
3. Power LED

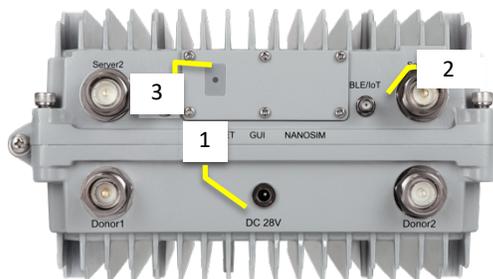


Figure 6: Power connector and IoT connector

If you need help during any phase of installation, contact SureCall Support – email support@surecall.com or call 888-365-6283 (Available Monday – Friday, 7am – 5pm Pacific Time).

Soft Install

Prior to securing the location of any booster components, a “soft install” is recommended as adjustments may be needed to optimize performance.

1. Choose where you will mount the booster.

Considerations

- Choose a location withing range of the provided power supply cable.

2. Identify the location for the donor antenna

Considerations

- Ensure there is a clear line of sight between the donor antenna and an active C-Band 5G gNB antenna, or at least that there’s adequate C-band 5G signal.
- Maximize antenna separation. Plan for adequate separation between the donor and server antennas.
- Ensure the donor antenna is oriented to face away from the server antennas if they are close in proximity.
- Make sure both antennas are not blocked by RF cables.
- The mounting area must have at least a 3 ft radius clear of obstructions, other radiating elements and metal objects such as pipes or metal siding.
- Note that the donor antenna must be mounted to an exterior surface or a 1-2” diameter pole. A mounting pole is not provided.

3. Identify the location(s) for the server antenna(s)

Considerations

- Maximize antenna separation. Plan for adequate separation between the server antennas and donor antenna.
- Ensure the server antenna(s) are oriented to face away from the donor antenna if they are close in proximity.
- Make sure the Server antenna faces required service area with minimal obstructions.

4. Connecting cable

Connect each server antenna to cables (not provided). Run the cables along route toward the planned location of the booster and connect to the appropriate ports.

Connect the donor antennas to cables (not provided). Run the cable along route toward the planned location of the booster and connect to the appropriate ports.

Considerations:

Do not fix mounting hardware until the optimum antenna angle is found. Loosely secure the antennas and cable in a manner that allows for adjustment during final system testing.

5. Powering up

Do not add power until all components are connected and in place.

Installation

Step 1: Install the Booster

The SureCall UltraWideBand signal booster requires an indoor wall mount.



Figure 7: Wall-mount bracket



Figure 8: View of booster unit



Figure 9: Booster unit with mounting bracket

Mount the Booster to the wall in your chosen location. Follow the steps outlined below.

1. Use the booster bracket to mark on the wall and pre-drill 4 holes at 8mm diameter and approximately 43mm depth to accommodate the provided wall anchors.

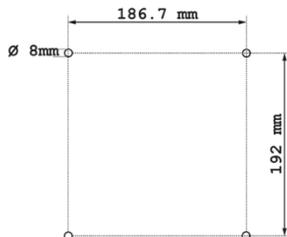


Figure 10: Pre-drill anchor placement

2. Install the 4 expansion wall anchors.

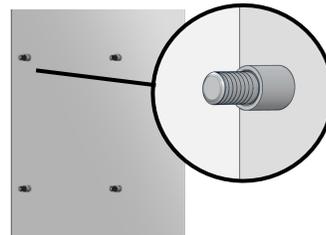


Figure 11: Installing wall anchors

- Place bracket onto wall through 4 expansion screws. The bracket should be positioned with the U shape on the bottom.

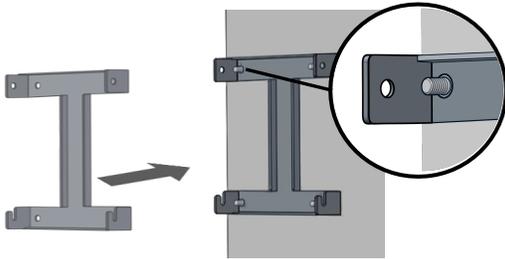


Figure 12: Placing bracket onto wall anchors

- Use the fastening bolts to secure the bracket in place.

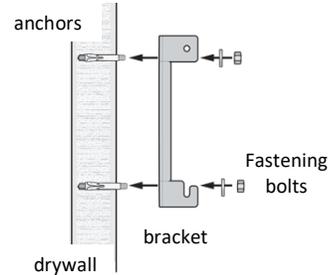


Figure 13: Securing bracket to the wall

- Add M8x14 bolts to lower sides of the booster. Do not tighten.

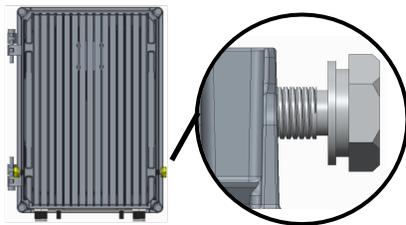


Figure 14: Adding bolts to lower sides of the booster

- Place booster onto the U-shaped part of the bracket as shown.

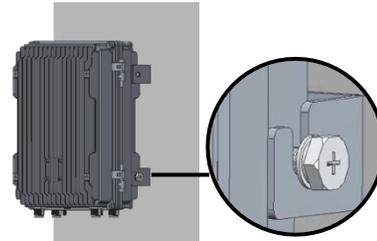


Figure 15: Placing the booster onto the wall bracket

- Align the top portion of the bracket with the booster with the threaded connections on the booster. Thread the remaining two M8x14 bolts through the bracket and into the connection on the sides of the unit. Do not tighten screws until all 4 bolts are in place.

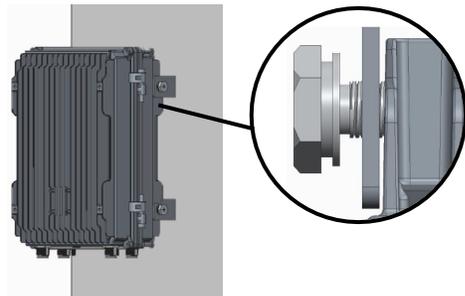


Figure 16: Threading bolts into booster through the bracket

- Tighten all 4 bolts.



Figure 17: Final, tightening all 4 bolts

Step 2: Install the Donor Antenna

Install the Donor antenna in your chosen location, facing the gNB, ensuring there is a clear line of sight between it and an active C-Band 5G gNB antenna.

Once you find the position that shows the highest signal strength in the app, you may finalize the installation of the Donor Antenna in that position.

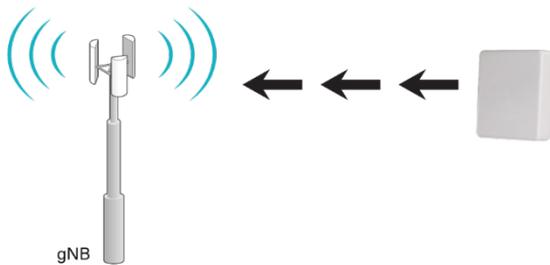


Figure 18: Aiming your antennas

Step 3: Install the Server Antennas

Install the Server antennas in your chosen locations.

You must also carefully aim the Server Antenna into the area that needs C-Band 5G coverage. Please refer to Server Antenna user manual for detail of Antenna angle adjustment. You'll aim the Server Antennas and you may find it helpful to have someone with a C-Band 5G device check signal strength in your desired coverage area while adjusting the position of your Server Antennas.

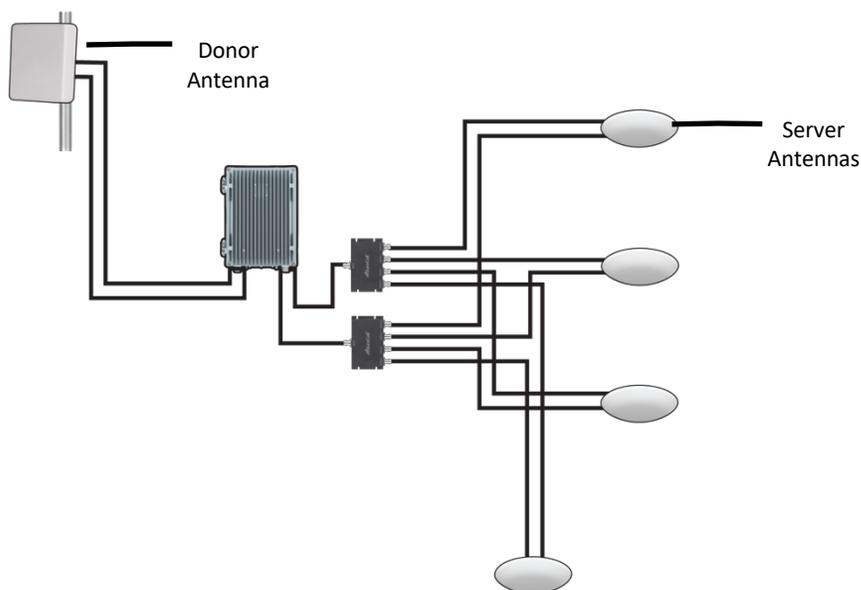


Figure 19: System layout option A

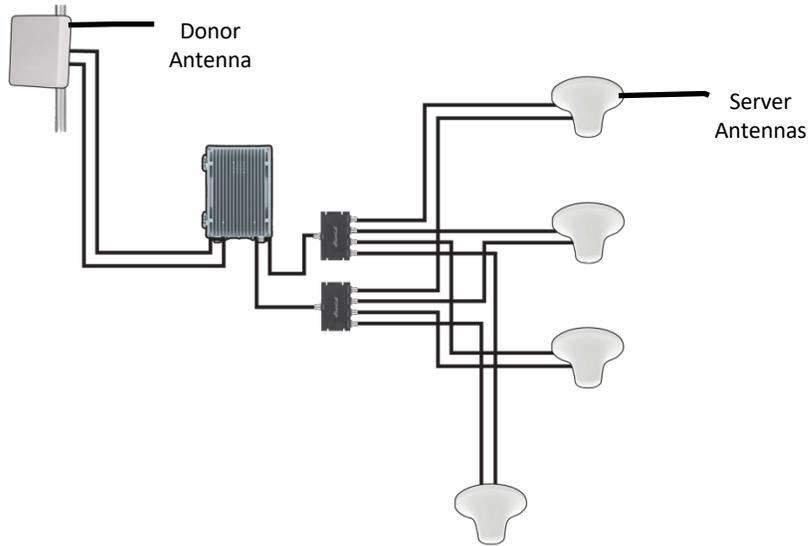


Figure 20: System layout option B

Step 4: Connecting Booster Unit to Donor and Server Antennas

After the Donor and Server Antennas are initially mounted, connect the Donor Antenna to Booster Unit Donor Antenna ports (Labeled as Donor1 and 2) with qualified RF cables, and connect the Server Antenna to Booster Unit Server Antenna ports (labeled as Server1 and 2) with qualified RF cables.

Step 5: Applying Power

Once all components are initially mounted, connect your power supply to the port labeled, "DC -28V". The LED on the Booster Unit should glow green when power is present. Your result should resemble the image immediately below.



Figure 21: Power BLE LEDs

Alarms

There are two main types of alarms, which will be mentioned covered below: Major and Critical. Below we outline the various alarms and whether it is major or critical, and the solutions that can be employed to fix them.

Downlink output power – major type

This alarm will trigger if the booster's downlink output power exceeds the programmed thresholds. The "power" represents the EIRP coming from each antenna, and in the downlink direction it should always be around +39dBm. If this alarm triggers, it would be a major alarm because it means that the booster will not service the coverage area effectively. The expected action depends on why the output power is low. If it's due to the input power being lower, it could be caused by something blocking the signal, the gNB moved or is inoperable, the booster somehow got repositioned such that it's no longer aimed properly, very poor weather conditions, or the booster has a defect. If it's due to the gain being lower, it could be caused by something around the booster affecting the antenna isolation, or the booster has a defect.

Uplink output power – critical type

This alarm will trigger if the booster's uplink output power exceeds the programmed thresholds. The "power" represents the EIRP coming from each antenna, and in the uplink direction it can vary between no input signal (we don't detect below +20dBm) and +48dBm. This alarm should never trigger by going below the threshold because it depends on the number of active users and will often be at the minimum. If the alarm triggers above the threshold it means that the booster is overdriving its output and will mean the booster is defective. This alarm should never get triggered unless there's a problem with the booster, which is why it's a critical type.

Booster temperature – major type

This alarm will trigger if the booster gets too hot or too cold (outside of the booster's operating specs). If the booster goes below the operating specs, it will still operate but will likely have reduced performance. If the booster goes above the operating specs, it will reduce its output power intentionally so that it does not overheat and damage the circuitry. If either of these occur regularly, it might be necessary to relocate the booster.

Antenna Optimization

Once your Donor and Server Antennas are mounted and your Booster Unit is connected to power, adjustments may be needed to achieve maximum signal strength and coverage. Specifically, your Donor Antenna must be aimed at the nearest 5G C-Band gNB, and your Server Antenna at the area to which you desire to provide 5G C-Band connectivity.

To aid you in this task, SureCall offers the SureCall app. You may find final installation and antenna aiming easier as a team, with one installer making adjustments and another using the app on the ground to guide the installer. For more information, see the appendix on page 17.

Troubleshooting

Issue	Possible Resolution Steps
No power	The LEDs on the UltraWideBand signal booster glow green when power is present. If the LEDs do not glow, please check your power connection.
Speed/signal strength issues	Recheck positioning and aiming of your Donor and Server Antennas. If the Donor Antenna is not aimed properly, the input signal strength will be low (<-45dBm). The server antenna must be checked visually.
Bluetooth connection issues	Make sure the IoT/Bluetooth antenna has been installed. Check that it is screwed in thoroughly. If this is a previously installed site, use the IoT interface to check if BLE has been disabled.

Specifications

Technical Specifications

Frequency UL/DL	3.70 to 3.84 GHz
Input / Output Impedance	50 Ω
Max Uplink / Downlink Gain	78 dB
Gain Adjustment Uplink / Downlink	>30 dB (Automatic)
Max Uplink Power Conducted	28.5 dBm
Max Downlink Power Conducted	25.0 dBm
Noise Figure:	≤6 dB
Transmission group delay	<20ns
MIMO	2x2

Network Specifications

Oscillation Protection	§ 20.21(e)
Overload Protection	§ 20.21(e)
Cell Site Noise Protection	§ 20.21(e)
Transmit Power Off (squelch)	§ 20.21(e)

General Specifications

Remote Monitoring	Cloud-Based IoT, BLE, GPS (antenna not included)
Power Supply	28VDC
Power Consumption	<35W
RF Connectors	4.3-10 Female
Operation Temperature	-4°F to +104°F (-20°C to +40°C)
Unit dimensions (in)	5.5 x 9.3 x 13.4
Unit weight	16 lb 4 oz
Case Rating	IP54

Appendix: Optimizing Your Connection Using the SureCall Cloud Platform

Once your SureCall UltraWideBand signal booster is mounted and powered, you will also need to monitor the strength of the received signal during installation to identify the best antenna position. To aid you in this task, SureCall offers a SureCall Cloud platform. You may find final installation and antenna aiming easier as a team, with one installer making adjustments and another using the app on the ground to guide the installer.

SureCall Cloud Access

IoT cloud service for each booster is included for three years and will be activated prior to shipment. Access must be set up through the SureCall Cloud website available at the following link:

<https://surecall-cloud.azurewebsites.net>

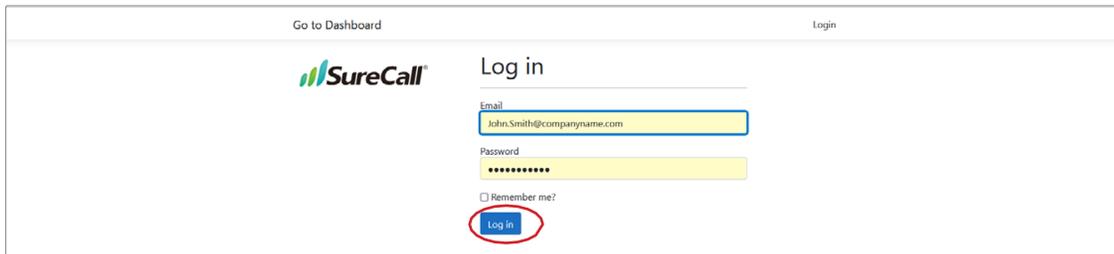
Your initial login information is provided during your account setup.

Account Management

Log in

Click the 'Log in' link in the upper right.

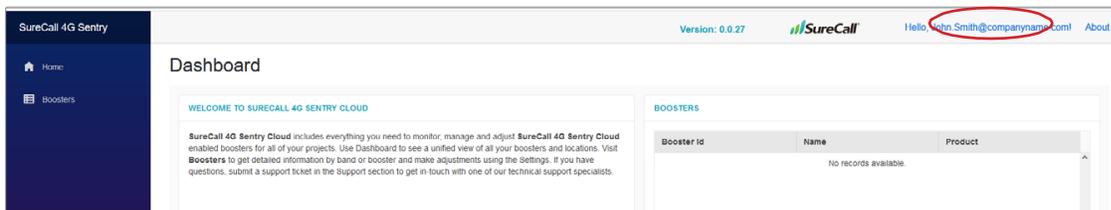
Enter your login information provided by SureCall customer support and click the 'Log in' button.



The screenshot shows the login page for SureCall Cloud. At the top left, there is a link "Go to Dashboard" and at the top right, a link "Login". The main heading is "Log in" next to the SureCall logo. Below the heading are two input fields: "Email" with the value "John.Smith@companyname.com" and "Password" with masked characters "*****". There is a checkbox labeled "Remember me?" which is unchecked. A blue "Log in" button is located below the password field and is circled in red.

This will bring you to your dashboard screen.

From the dashboard screen, you can manage your access and devices. Click on your username to manage your account.



The screenshot shows the dashboard for SureCall 4G Sentry. The top navigation bar includes "Version: 0.0.27", the SureCall logo, and a user profile section with "Hello, John.Smith@companyname.com!" and an "About" link. The user's name and email are circled in red. The main content area is titled "Dashboard" and contains a "WELCOME TO SURECALL 4G SENTRY CLOUD" message. Below this is a "BOOSTERS" section with a table that has columns for "Booster id", "Name", and "Product". The table currently shows "No records available."

From any screen, clicking on your username on the top right brings you to your account management page.

Reset Password

Here, you can reset your password and view your profile

[Go to Dashboard](#) Hello John.Smith@companyname.com! [Logout](#)

Manage your account

Change your account settings

[Profile](#)

Password

Change password

Current password

New password

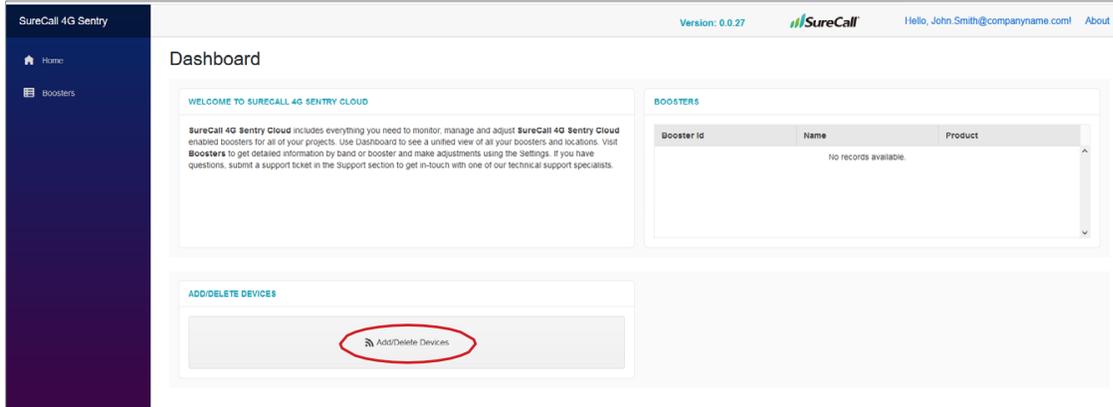
Confirm new password

[Update password](#)

DEVICE MANAGEMENT

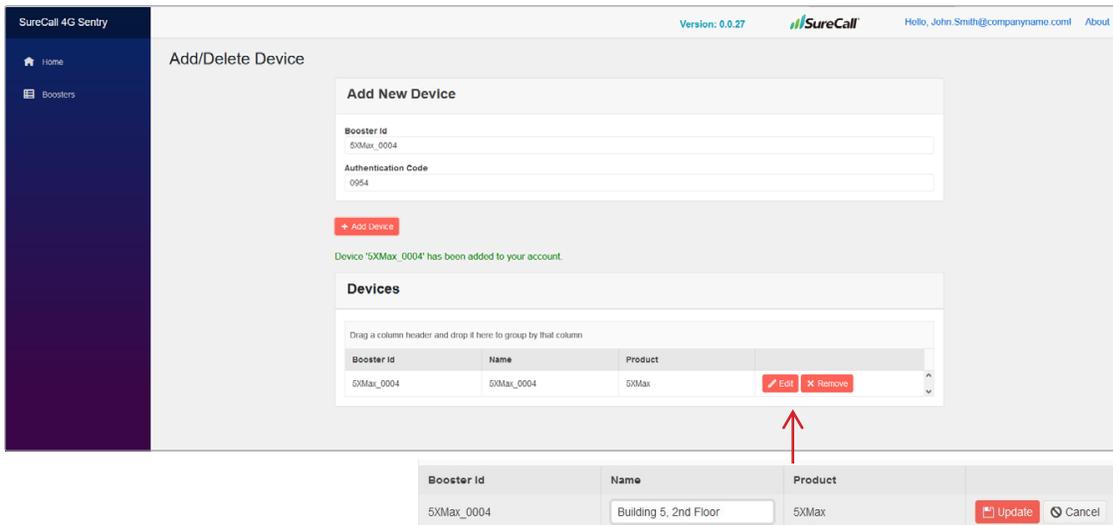
Add New Device

To manage devices, click the 'Add/Delete Devices' button from your dashboard to open up the booster management screen.



To add a booster to your account, you will need the serial number (booster ID) and the authentication code provided by customer support. Click 'Add Device.'

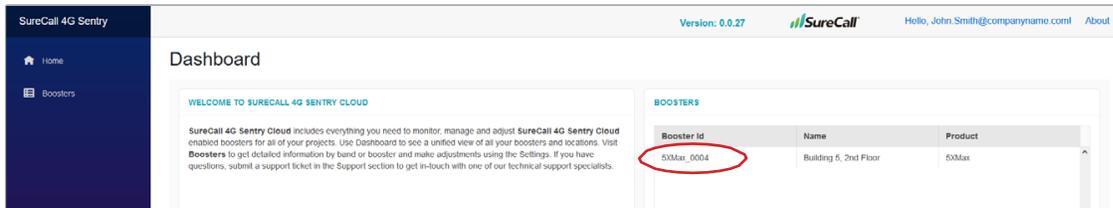
The window will look like below when this is successfully done.



Edit Device Name

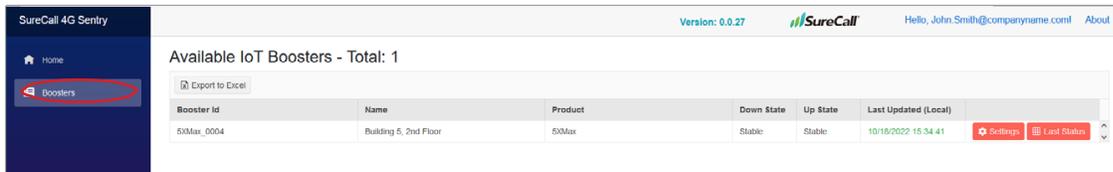
From this same window, the booster can be named so that it can be identified easier. Simply click the ‘Edit’ button next to the booster then enter the new name in the edit box as shown below. Then click the ‘Update’ button to set this change.

Clicking ‘Home,’ in the left menu returns you to the dashboard where the new booster is now shown.

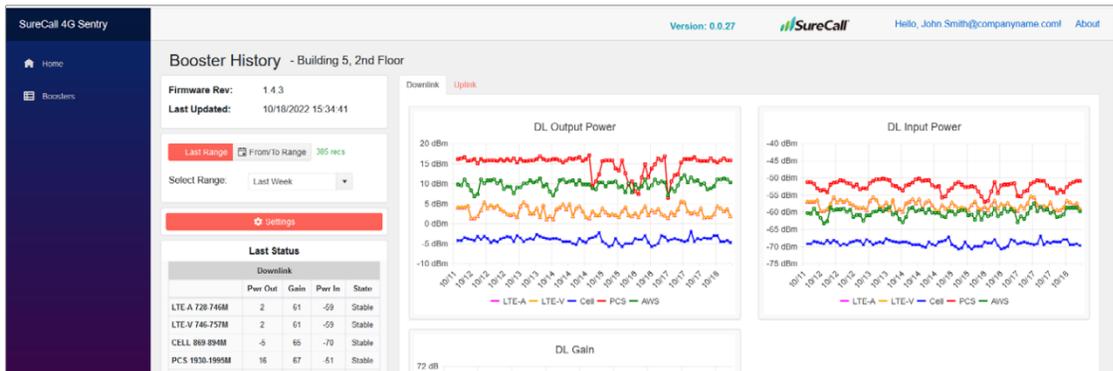


Booster Status

To view the status of your boosters, click on ‘Boosters’ in the left menu. This shows the status for your booster and any booster added to your account. To view more specific detail for any booster, click the boosters status info, which will open up the status info for that booster.



Booster History

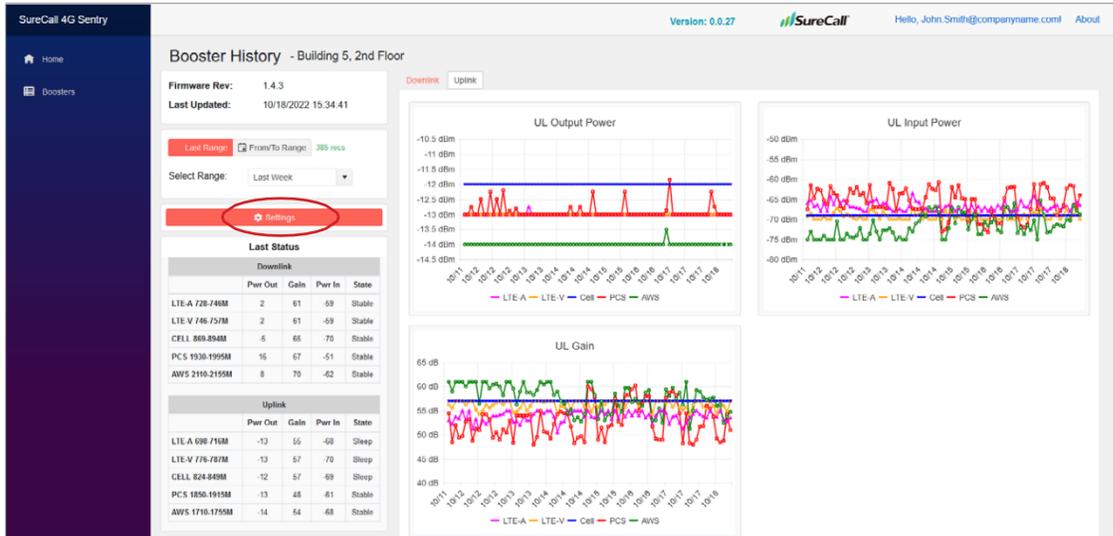
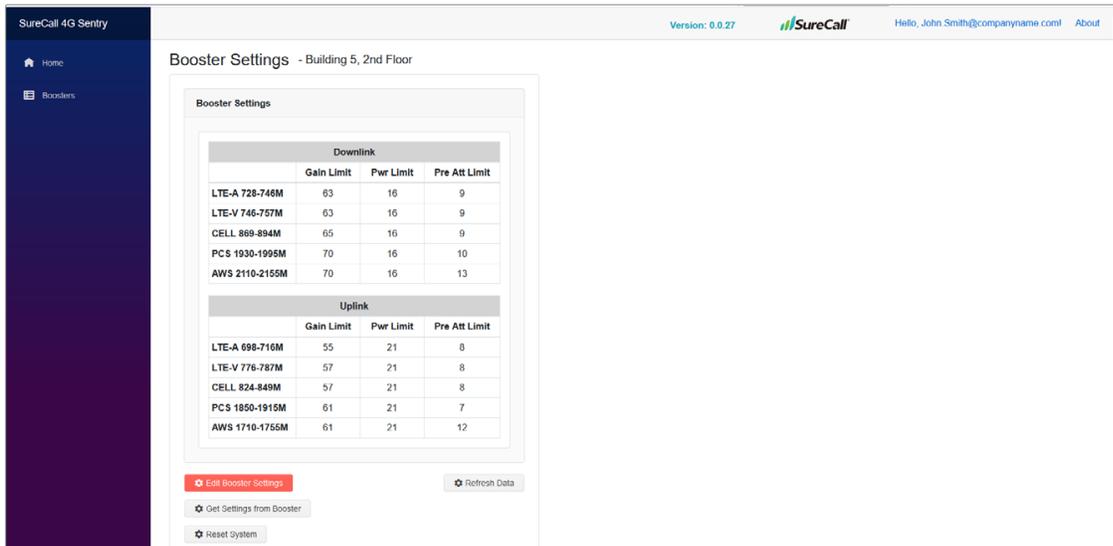


The below screen shows the status of the particular booster selected, which includes the history of the output power, input power, and gain. This data is preserved in the cloud for the last years of data. The data shown is determined by the “Select Range” setting and can quickly be changed for the data that is desired, including specifying any specific dates.

The following shows that the uplink data can be viewed as well.

Settings

By clicking the 'Settings' button, the following screen shows what can be viewed and edited for the booster's settings.

Downlink			
	Gain Limit	Pwr Limit	Pre Att Limit
LTE-A 728-746M	63	16	9
LTE-V 746-757M	63	16	9
CELL 869-894M	65	16	9
PCS 1930-1995M	70	16	10
AWS 2110-2155M	70	16	13

Uplink			
	Gain Limit	Pwr Limit	Pre Att Limit
LTE-A 698-716M	55	21	8
LTE-V 776-787M	57	21	8
CELL 824-849M	57	21	8
PCS 1850-1915M	61	21	7
AWS 1710-1755M	61	21	12

Warranty

Activate your product warranty at www.surecall.com/ACTIVATE

For questions regarding your warranty, contact a SureCall representative at 1-888-365-6283 or email support@surecall.com.

SureCall products are covered under a three-year product warranty from the date of purchase.

This protects the customer from any defects or problems the product may have that are solely the fault of SureCall. Incorrect installation or misuse will void this warranty. Upon the return of a defective product, SureCall will issue the customer a working replacement. All returned packages should contain all products distributed.

Three-Year Product Warranty

SureCall warrants its products for years it commits and starts from the date of purchase against defects in workmanship and/or materials. Products returned by customers must be in their original, un-modified condition, shipped in the original or protective packaging with proof-of-purchase documentation enclosed, and a Return Merchandise Authorization (RMA) number printed clearly on the outside of the shipping container.

Buyers may obtain an RMA number for warranty returns by calling the SureCall Return Department toll-free at 1-888-365-6283. Any returns received by SureCall without an RMA number clearly printed on the outside of the shipping container will be returned to sender. In order to receive full credit for signal boosters, all accessories originally included in the signal booster box must be returned with the signal booster. (The Buyer does not need to include accessories sold in addition to the signal booster, such as antennas or cables.) This warranty does not apply to any product determined by SureCall to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages the product's physical or electronic properties.

SureCall warrants to the Buyer that each of its products, when shipped, will be free from defects in material and workmanship, and will perform in full accordance with applicable specifications. The limit of liability under this warranty is, at SureCall's option, to repair or replace any product or part thereof which was purchased up to THREE YEARS. Warranty returns must first be authorized in writing by SureCall.

Disassembly of any SureCall product by anyone other than an authorized representative of SureCall voids this warranty in its entirety. SureCall reserves the right to make changes in any of its products without incurring any obligation to make the same changes on previously delivered products. As a condition to the warranties provided for herein, the Buyer will prepay the shipping charges for all products returned to SureCall for repair, and SureCall will pay the return shipping with the exception of products returned from outside the United States, in which case the Buyer will pay the shipping charges. The Buyer will pay the cost of inspecting and testing any goods returned under the warranty or otherwise, which are found to meet the applicable specifications or which are not defective or not covered by this warranty.

Products sold by SureCall shall not be considered defective or non-conforming to the Buyer's order if they satisfactorily fulfill the performance requirements that were published in the product specification literature, or in accordance with samples provided by SureCall. This warranty shall not apply to any products or parts thereof which have been subject to accident, negligence, alteration, abuse, or misuse. SureCall makes no warranty whatsoever in respect to accessories or parts not supplied by it.

Limitations of Warranty, Damages and Liability

EXCEPT AS EXPRESSLY SET FORTH HEREIN, THERE ARE NO WARRANTIES, CONDITIONS, GUARANTEES, OR REPRESENTATIONS AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHER WARRANTIES, CONDITIONS, GUARANTEES, OR REPRESENTATIONS, WHETHER EXPRESSED OR IMPLIED, IN LAW OR IN FACT, ORAL OR IN WRITING. SURECALL AGGREGATE LIABILITY IN DAMAGES OR OTHERWISE SHALL NOT EXCEED THE PAYMENT, IF ANY, RECEIVED BY CELLPHONE-MATE, INC. FOR THE UNIT OF PRODUCT OR SERVICE FURNISHED OR TO BE FURNISHED, AS THE CASE MAY BE, WHICH IS THE SUBJECT OF CLAIM OR DISPUTE. IN NO EVENT SHALL SURECALL BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES, HOWSOEVER CAUSED.

All matters regarding this warranty shall be interpreted in accordance with the laws of the State of California, and any controversy that cannot be settled directly shall be settled by arbitration in California in accordance with the rules then prevailing of the American Arbitration Association, and judgment upon the award rendered may be entered in any court having jurisdiction thereof. If one or more provisions provided herein are held to be invalid or unenforceable under applicable law,

then such provision shall be ineffective and excluded to the extent of such invalidity or unenforceability without affecting in any way the remaining provisions hereof.

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