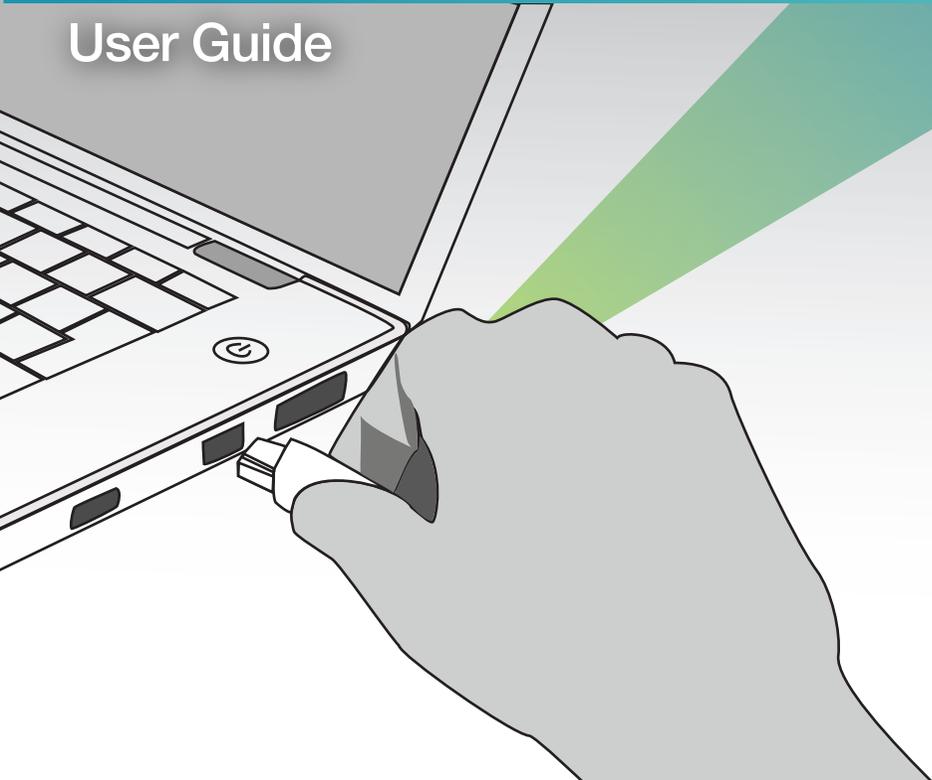




# 4G LTE™

Direct Connect Signal Booster Kit for Home Computers and Laptops

User Guide



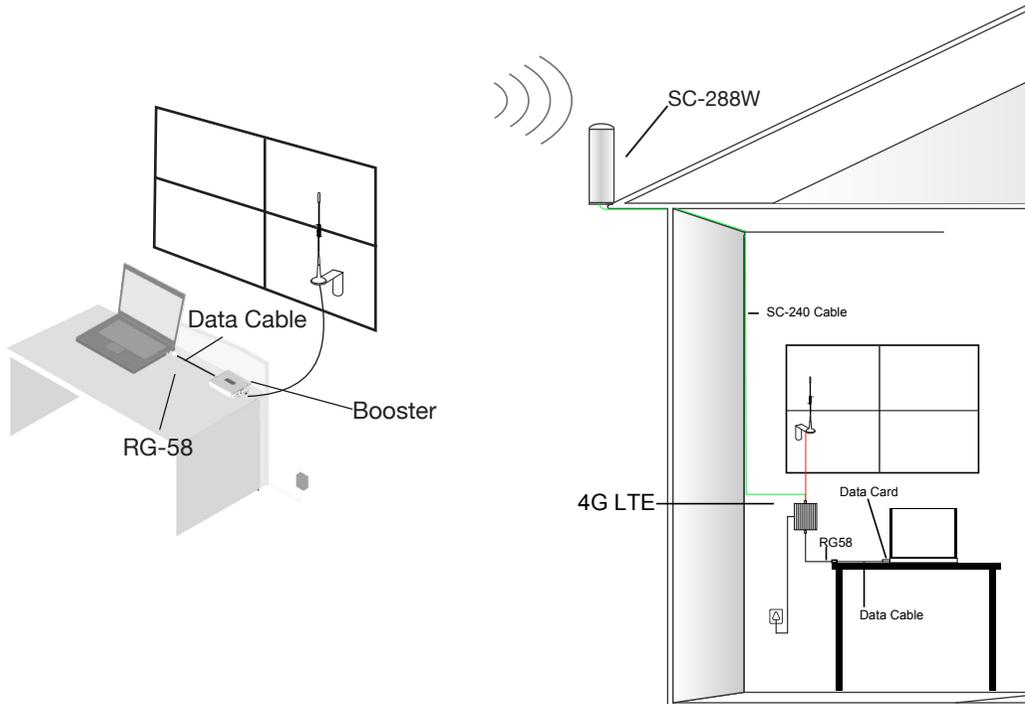
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The 4G LTE Signal Booster by SureCall provides noticeably enhanced 4G reception for Verizon or AT&T LTE. You will see the difference in the number of bars your computer displays and you'll notice the dramatic increase in the speed of data uploads and downloads.

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# How It Works

The cellular signal is received by the antenna from the cell tower, it is then transmitted through the outdoor SC-240 cable to the 4G LTE booster, which amplifies and sends the signal through the RG-58 cable which connects to the computer's data cable (not included) to your computer's data card, sending the improved signal to your computer through the data card. When the data card transmits, the signal goes through the data cable, it is then sent through the RG-58 cable and amplified by the booster and broadcast back to the cell tower through the antenna.



# Package Contents

## Package Contents:

- 4G LTE Cellular Booster
- SC-700-S-S Suction cup Antenna
- SC-288W Antenna (option)
- RG-58 6' Cable
- RG-174 Cable
- SC-240 40' Outdoor Cable (option)
- AC Power Adapter
- FME to SMA Adapter

## Step 1. Find the area with the Strongest Signal

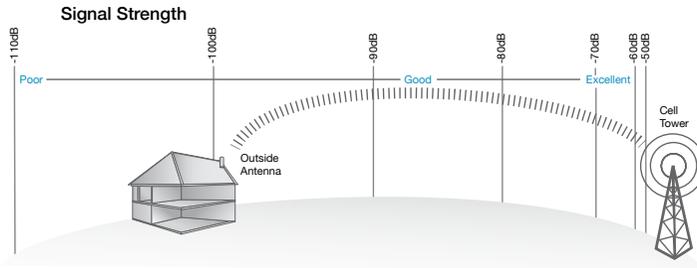
The signal booster requires a minimum cellular signal of low  $-100$  dBm. Signal readings usually appear as a negative number (for example  $-85$ ). The more bars you get, the closer the dB gets to zero. Aim for a signal close to  $-50$ dB. Signals stronger than  $-50$ dB may cause the booster to shut down. (see the graph on the next page). If installing the SC-288W outside antenna, find the area with the strongest cellular signal source from your service provider by following the directions below. If you're using the SC-700-S-S magnetic mount antenna, find a window location near your work station with the strongest signal. You can also go to [www.antennasearch.com](http://www.antennasearch.com) to find the general location of carrier towers.

**Note:** You may need to change the location of your workstation to achieve the best signal.

### 1. Measure the strength of the existing cellular signal in various locations.

- Apple iPhones: Dial \*3001#12345#\* and press Call. In the top-left corner, a dB number appears instead of bars.
- Android devices: download apps such as “Network Signal Info” in the Google Play store to measure signal strength. Search check real signal strength to find other cell signal measurement apps.
- Internet: go to [www.speedtest.net](http://www.speedtest.net) to test 3G and 4G data rates.

# Finding the Strongest Signal



2. Select a location away from buildings, walls, trees, hills, and other terrain features that can block or reflect wireless signals (12-inch clear radius is recommended).

## Connecting the Suction Mount Antenna

Installing the SC-700-S-S magnetic mount antenna

- Step 1: Clean the window area that prior to adhering the antenna base.
- Step 2: Apply the suction mount base to the window
- Step 3: Affix the magnetic mount SC-700-S-S Antenna
- Step 4: Connect the SC-700-S-S antenna cable to the 4G LTE booster port labeled OUTSIDE
- Step 5: Connect the RG58 cable to the 4G LTE port labeled INSIDE
- Step 6: Connect the RG58 cable to your computer's data cable (not included)
- Step 7: Attach your data cable to your computers data card



# Connecting to an Outdoor Antenna

## Option:

### Connect the Outdoor Antenna:

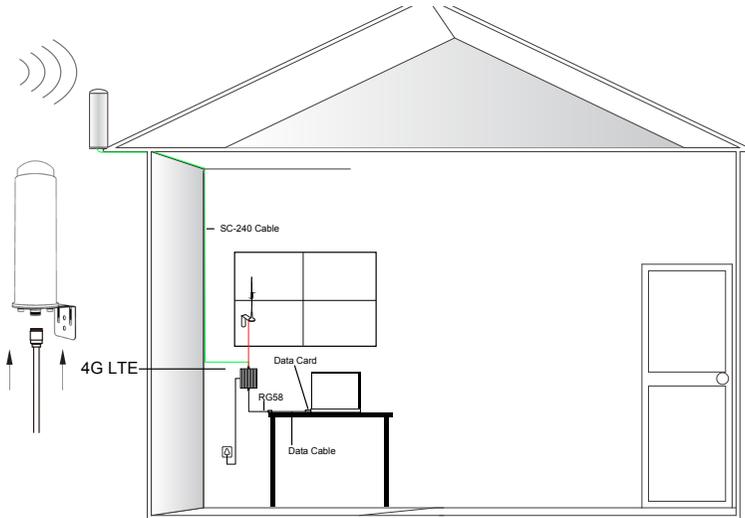
SureCall's outdoor omni antenna SC-288W comes with equipment for mounting on a vertical wall. For best results the antenna should be mounted in an upright position. The antenna should be placed near the location you identified in the previous step for the best possible reception. The best location will be clear of obstacles. Connect the antenna cable to the "OUTSIDE" connector of the booster and tighten it. If using another antenna other than a SureCall antenna, use the included adapter to connect the cable leading from OUTSIDE connection to antenna.

### Mounting the Outdoor Antenna:

- Step 1: Unscrew antenna from L-mounting bracket on antenna base with hands, or wrench, if needed.
- Step 2: Using vertical plate of bracket, mark position of desired placement with pencil or marker.
- Step 3: Unscrew nut on end of stucco screw and remove it along with lock washer and regular washer.
- Step 4: Place vertical plate into desired location and tap the screws, head first, along with sleeve into stucco 1/2" to 5/8" deep into place.
- Step 5: In this order, place washer, lock washer and nut on each screw and tighten until secure. When tightening screw, sleeve will expand to secure plate. Screw antenna securely back onto horizontal plate.

**Note:** The booster case may become warm during operation. This is normal. Press any key on your cell phone to refresh communication with the base station.

# Installing Your Hardware



## Installing your Hardware:

1. Connect one end of the SC-240 cable to the outside antenna. Connect the other end to the 4G LTE booster connector marked OUTSIDE. Hand-tighten the connection.
2. Connect the RG58 cable to the 4G LTE booster connector marked INSIDE.
3. Connect your computer's data card to the RG58 cable on one end and your computer's data card on the other end.
4. Connect the AC power cord to the booster using the USB connector end. Then connect the free plug to the outlet. Make sure all of the connections to the booster are tight and secure. The LED light will turn green indicating that the booster is ready to use.

## Using the Booster

The booster is ready for use as soon as all connections are made and the unit powers up without the red light coming on. You may now enjoy enhanced cellular reception through your laptop or computer.

## Troubleshooting

| Problem   | Resolution  |
|---|---|
| Signal booster has no power   | Make sure the power supply is plugged in. If the power LED is still off, return the power supply to SureCall. Contact SureCall's tech support at 888-365-6283 or @surecall.com, or go to <a href="http://www.surecall.com">www.surecall.com</a> and log on to online support to receive a Return Merchandise Authorization (RMA). |
| After installing your signal booster system, you have no signal or reception. | Verify that all signal booster and antenna cable connections are secure.  |
| The Warning LED on the side of your signal booster is flashing red.           | Make sure you have the recommended 4-6 feet of separation between booster and the antenna.  |

## Specifications

|                                 |                          |                   |
|---------------------------------|--------------------------|-------------------|
| Product Name                    | 4G LTE Verizon           | 4G LTE AT&T       |
| Uplink Frequency Range (MHz):   | 776-787                  | 698-716           |
| Downlink Frequency Range (MHz): | 746-757                  | 728-746           |
| Input/ Output Impedance:        | 50 Ω                     |                   |
| Maximum Gain:                   | 15 dB                    |                   |
| Noise Figure:                   | 5 dB                     |                   |
| VSWR:                           | ≤2.0                     |                   |
| AC Power Transformer            | 110VAC, 60Hz IN / 6V     |                   |
| Maximum Output Power:           | EIRP is 19.5 dBm         | EIRP is 19.44 dBm |
| Cable:                          | RG58, SC-240-40          |                   |
| RF Connectors:                  | SMA Male Connectors      |                   |
| Power Consumption:              | <9W                      |                   |
| Dimensions:                     | 4 7/8" x 2 3/4" x 1 1/8" |                   |
| Weight:                         | 1 lb.13 oz               |                   |
| FCC ID (USA)                    | RSNM2M-A or RSNM2M-V     |                   |

## Kitting Information

| Component     | Product Number Description | 4G LTE-V / 4G LTE-A |
|---------------|----------------------------|---------------------|
| Antenna       | SC-288W                    | 3 dBi               |
| Outdoor Cable | SC-240-40 Feet             | 3.52 dB             |
| Suction Mount | SC-700-S-S                 | 1.5 dBi             |
| Indoor Cable  | RG58-6 Feet                | 2.1 dB              |

## Three-Year Product Warranty

SureCall warrants its products for three years from the date of purchase against defects in workmanship and/or materials. Specifications are subject to change. The three-year warranty only applies to products meeting the latest FCC Certification Guidelines stated on 2/20/2013 and going into effect April 30, 2014. A two-year warranty applies to any products manufactured before May 1, 2014.

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 after May 1, 2014 or TWO YEARS for products purchased before May 1, 2014**, as determined by examination by SureCall, prove defective in material and/or workmanship. 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.

### SAFETY INFORMATION

This is a CONSUMER device.

BEFORE USE, you MUST REGISTER THIS DEVICE with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider. You MUST operate this device with approved antennas and cables as specified by the manufacturer. Antennas MUST be installed at least 20 cm (8 inches) from any person. You MUST cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

**WARNING: E911 location information may not be provided or may be inaccurate for calls served BY USING THIS DEVICE.**

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www.surecall.com

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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 help.