



# Fusion**TREK**™

Voice, text & 4G LTE signal booster for your vehicle

## User Guide



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Thank you for purchasing SureCall's FusionTrek cell phone signal booster kit. FusionTrek provides enhanced voice, text and 4G data signal for any vehicle.

If you have any questions during setup, please reach out to our US-based experienced support technicians:

- Call: 1-888-365-6283
- Email: [support@surecall.com](mailto:support@surecall.com)



Watch the quick install video [https://youtu.be/\\_k20SwLBaQg](https://youtu.be/_k20SwLBaQg)

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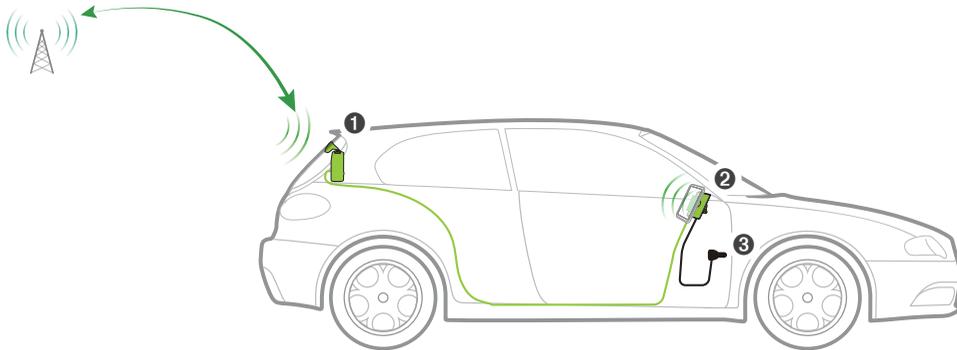
## HOW IT WORKS

The SureCall FusionTrek is a high-quality bidirectional booster that enhances cellular signals for vehicles.

The FusionTrek works with two antennas:

- An inside antenna that communicates with your cell phone.
- An outside antenna that communicates with the cell tower.

Signals sent from a cell tower are received by the outside antenna, amplified by the booster and then sent to your cell phone via the inside antenna. When your phone transmits, the signal is sent to the inside antenna, and then sent to the cell tower via the outside antenna.



# Package Contents

## PACKAGE CONTENTS

1. Unpack all package contents. For missing or damaged items, contact your reseller.
2. Turn over the signal booster and record the model and serial number for reference:

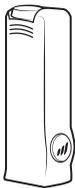
Serial #: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Keep the carton and packing material to store the product in case you need to return it.

Your signal booster package includes the following items:

- 1.** SureCall FusionTrek Inside window mount signal booster 2 mounting options
  - 2.** Adjustable Window Suction-Mount
  - 3.** Adhesive Base Mount
- 4.** Magnetic phone mount with incorporated antenna
- 5.** Metal phone plates
- 6.** DC power adapter



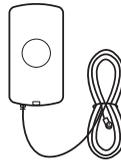
**1.** FusionTrek  
Booster



**2.** Adjustable Window  
Suction-Mount



**3.** Adhesive Base  
Mount



**4.** Magnetic Cradle  
Antenna



**5.** Metal  
Plates



**6.** DC Power  
Adapter

## STEP 1: MOUNT BOOSTER ON/NEAR REAR WINDOW



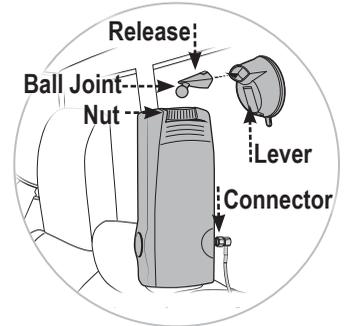
Mount booster in the center of your inside back window using one of the two options below. We suggest using the adjustable window mount option for vertical or near-vertical windows and the adhesive base mount for windows that are more angled, like sedans. For both installations you need to place the booster as close to the rear window as possible. For best performance, be sure the booster is mounted vertically with the SureCall logo facing the front of the vehicle.

Ensure that the antenna has at least a 12-inch radius clear of obstructions and other radiating elements, such as a radio antenna.

Note: The outside antenna must not be collocated or operating with any other antenna or booster.

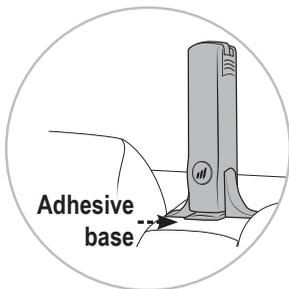
### a. Installation Using Adjustable Window Suction Mount

1. Remove the back part of the window suction mount bracket by pressing on the release.
2. Identify a high and centered location on the back window and clean location.
3. Lift the lever on the adjustable window mount, place firmly onto the window and press down on the lever to lock in place.
4. Press the booster back into the mounted adjustable window mount bracket.



### b. Installation Using Adhesive Base

1. Find a flat and horizontal surface near the rear window and use the alcohol pad to clean the mounting location.
2. Remove the backing from the adhesive strip and press the booster down firmly on to the mounting location.



## STEP 2. MOUNT CRADLE ANTENNA & CONNECT COMPONENTS

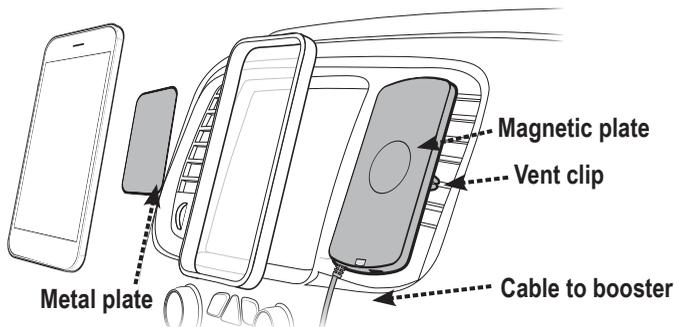
Identify a location for the inside antenna on or near your front dashboard that is

1. Place the magnetic cradle antenna on an air-vent, in your cup-holder or center-console.
2. Plug the barrel connector into the cradle antenna and route the cable from the cradle antenna to the booster. Screw the cable into the connector on the back of the booster.
3. We recommend running the cable under the floor-mats or beneath the car's molding for a professional look.
4. Adhere one of the magnetic stickers to the back of your phone or phone-case and place your phone on the magnetic cradle antenna.



Identify a location for the inside antenna on or near your front dashboard that is

1. Within 2-3 feet of the typical cell phone location
2. At least 8 inches (20cm) from cellular devices and
3. At least 4 inches (10cm) from metal



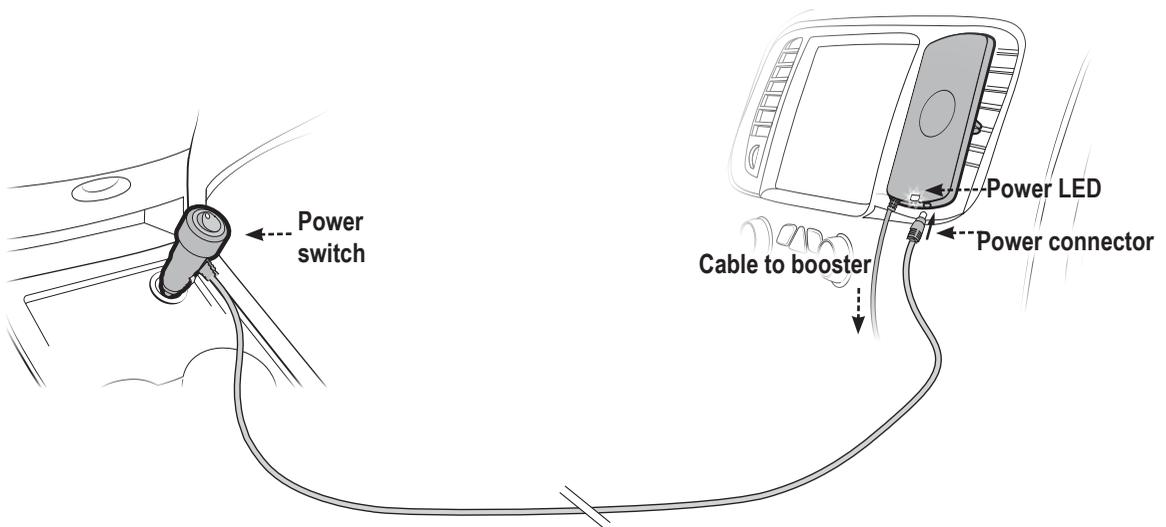
**IMPORTANT:** The antenna must be located at least 8 inches from all persons. The FCC requires to never use the cell phone in the cradle next to your ear.

## STEP 3. CONNECT TO POWER

1. Plug the DC Power Adapter into power port of your car.
2. Switch the Power Switch to On and a red light will illuminate on the adapter.
3. The cradle antenna will illuminate a green light when it is receiving power.

Note: Your phone will only receive the enhanced signal when it is placed on the cradle antenna.

When your car is off, turn the power switch to OFF to keep the booster from continuing to draw power from your vehicle.



**WARNING:** The booster is rated for 5-15V input voltage. DO NOT use the booster with a higher voltage power supply. This can damage the booster and/or cause personal injury.

## TROUBLESHOOTING

Problem	Resolution
Signal booster has no power	Verify that the Power LED is ON. Connect the power supply to an alternate power source. Verify that the power source is operational and the fuse is intact. If it remains OFF, contact tech support at: 1-888-365-6283 or support@surecall.com
After completing installation, signal has not Improved	Verify that cable connections are tightly fitted to the booster. <b>Note:</b> Bars are not always a reliable measure of signal. The best way to confirm signal coverage is the ability to place and hold a call.

## SPECIFICATIONS

Product	FusionTrek (US)	FusionTrek CA (Canada)
Uplink Frequency Range (MHz):	698-716 / 776-787 / 824-849 / 1850-1915 / 1710-1755 (G Block Included)	
Downlink Frequency Range (MHz):	728-746 / 746-757 / 869-894 / 1930-1995 / 2110-2155 (G Block Included)	
Input / Output Impedance:	50 Ω	
Maximum Gain:	23 dB	
Gain Adjustment:	20 dB (Automatic)	
Supported Standards:	CDMA, WCDMA, GSM, EDGE, HSPA+, EVDO, LTE and all cellular standards	
Noise Figure:	≤ 7 dB	
VWSR:	≤ 2.0	
Maximum Output Power:	1 Watt EIRP	
DC Power:	8-15VDC	
Cable:	SC-174, 15 ft	
RF Connectors:	SMA Female	
Power Consumption:	< 12W	
Operation Temperature:	14°F – 122°F	
Dimensions:	7.5 x 3.5 x 1.16 in	
Weight:	.62 lbs (9.92 oz)	
Certification:	FCC ID: RSNF-TREK	IC: 7784A-FTREK

Note: The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

## ANTENNA KITTING INFORMATION

Component	Prod No. Description	Gain/Loss					Notes
		LTE-A	LTE-V	800 MHz	1900 MHz	1700 MHz / 2100 MHz	
<b>FusionTrek Kit</b>							
Outdoor Antenna	WPANT10104-S3A (SC325W-WP)	0.5dBi	0.5dBi	2dBi	2dBi	3dBi\3dBi	Integrated antenna
Indoor Antenna	SC128W	-0.1dBi	-0.1dBi	-0.3dBi	3dBi	2.5dBi\3.2dBi	
Indoor Cable	SC-174-15FT (15 Feet)	3.4dB	3.4dB	3.7dB	6dB	5.5dB \6.2dB	

\*All equivalent antennas and cables are suitable for use with the FusionTrek As above information. Remark: Lower gain antenna can also be used.

\* **Warning:** Unauthorized antennas, cables, and/or coupling devices are prohibited by FCC new rules. Changes or modifications not expressly approved by SureCall could void the user's authority to operate the equipment.

\* **FCC 27.50(d)(4) Statement:** Fixed, mobile and portable (hand-held) stations operating in the 1720-1755 MHz band are limited 1 Watt EIRP. Fixed stations operating in this band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in this band must employ a means for limiting power to the minimum necessary for successful communications.

Frequency (MHz)	PreAGC			PreAGC		
	Pulse GSM			4.1 MHz AWGN		
	Input (dBm)	Output (dBm)	Gain (dB)	Input (dBm)	Output (dBm)	Gain (dB)
Uplink: 1710-1755	0.4	20.8	20.4	0.2	18.8	18.6
Uplink: 1850-1915	2.2	23.6	21.4	1.6	21.0	19.4
Uplink: 824-849	1.4	21.4	20.0	-2.2	17.7	19.9
Uplink: 698-716	0.3	21.4	21.1	-1.1	19.6	20.7
Uplink: 777-787	-0.9	20.4	21.3	-1.2	19.9	21.1
Downlink: 2110-2155	-18.4	2.3	20.7	-20.7	0.8	21.5
Downlink: 1930-1995	-19.8	2.2	22.0	-20.8	0.8	21.6
Downlink: 869-894	-19.6	1.5	21.1	-19.4	1.4	20.8
Downlink: 728-746	-17.5	3.7	21.2	-18.4	2.4	20.8
Downlink: 746-757	-16.9	1.9	18.8	-18.0	0.8	18.8

## CONSUMER GUIDELINES

### 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.

In Canada, **BEFORE USE** you must meet all requirements set out in ISED [CPC-2-1-05](#)<sup>1</sup>

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 (i.e. **MUST NOT** be installed within 20 cm of) any person.

You **MUST** cease operation of this device immediately if requested by the FCC (or ISED in Canada) 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.

### Ce produit est un appareil de CONSOMMATION

**AVANT DE L'UTILISER**, vous **DEVEZ ENREGISTRER CE DISPOSITIF** auprès de votre fournisseur de services cellulaires et obtenir son consentement. La plupart des fournisseurs de services cellulaires autorisent l'utilisation d'amplificateurs de signal. Il se peut que certains fournisseurs n'autorisent pas l'utilisation de ce dispositif sur leur réseau. Si vous n'êtes pas sûr, contactez-le.

Au Canada, **AVANT DE L'UTILISER** vous devez répondre à toutes les exigences ISED [CPC-2-1-05](#)<sup>2</sup>

Vous **DEVEZ** utiliser ce dispositif avec les antennes et les câbles autorisés, tel que le spécifie le fabricant. Les antennes **DOIVENT** être installées à au moins 20 cm (8 po) (**NE DOIVENT PAS** être installées à moins de 20 cm) de toute personne avoisinante.

Vous **DEVEZ** arrêter cet appareil immédiatement à la demande de la FCC (ISED au Canada) ou de tout fournisseur de services cellulaires autorisé.

**AVERTISSEMENT:** Il se peut que les informations relatives à la localisation E911 ne soient pas disponibles ou soient inexactes pour les appels qui utilisent cet appareil.

Register your cellular booster with your wireless carrier at the following urls:

**Verizon:** <http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html>

**AT&T:** <https://securec45.securewebsession.com/attsignalbooster.com/>

**T-Mobile:** <https://support.t-mobile.com/docs/DOC-9827>

**Sprint:** [https://www.sprint.com/legal/fcc\\_boosters.html](https://www.sprint.com/legal/fcc_boosters.html)

**U.S. Cellular:** <http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp>

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.

**Important:** The antenna must be located at least 8 inches from all persons. The FCC requires to never use the cell phone in the cradle next to your ear.

### CAN ICES-3 (B)/NMB-3(B) (Canada) :

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. 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

The Manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.

Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des réglemens d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.

La puissance de sortie nominale indiquée par le fabricant pour cet appareil concerne son fonctionnement avec porteuse unique. Pour des appareils avec porteuses multiples, on doit réduire la valeur nominale de 3,5 dB, surtout si le signal de sortie est retransmis et qu'il peut causer du brouillage aux utilisateurs de bandes adjacentes. Une telle réduction doit porter sur la puissance d'entrée ou sur le gain, et ne doit pas se faire au moyen d'un atténuateur raccordé à la sortie du dispositif.

1 For details on the requirements specified in ISED CPC-2-1-05, visit: <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html>

2 Pour plus de détails sur les exigences ISED CPC-2-1-05, reportez-vous au site: <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html>

## THREE-YEAR PRODUCT WARRANTY

Register at [www.SureCall.com](http://www.SureCall.com)

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.

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