



Fusion2Go 2.0™

Vehicle Voice and 4G Data Signal Booster

User Guide

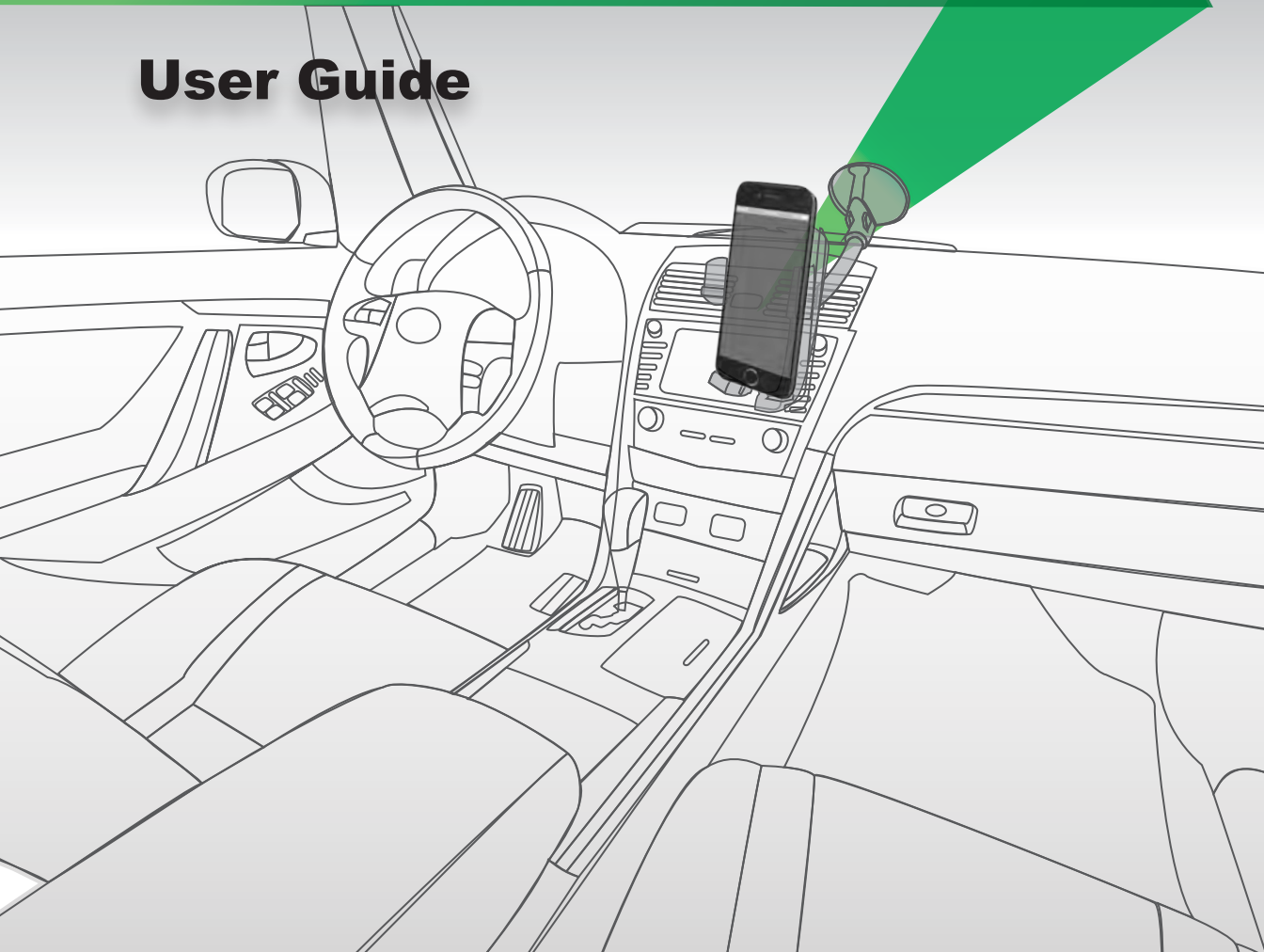


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Thank you for purchasing SureCall's Fusion2Go 2.0 cell phone signal booster kit. Fusion2Go 2.0 provides enhanced voice, text and 4G data signal for any vehicle.

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

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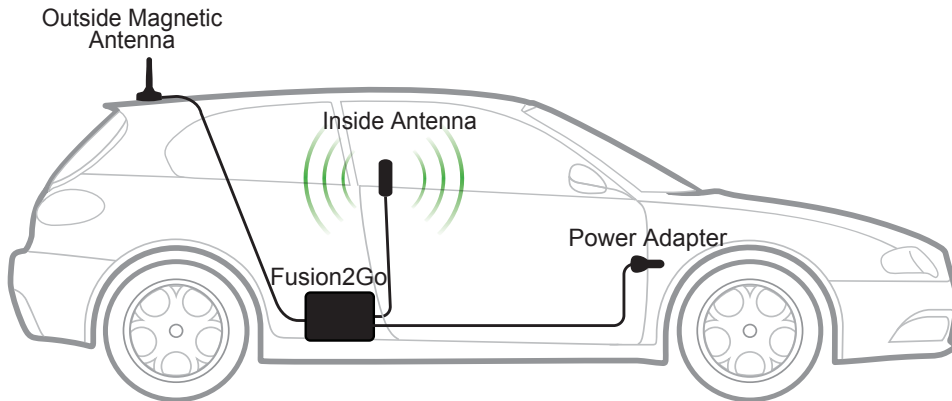
How It Works

The SureCall Fusion2Go 2.0 is a high-quality bidirectional booster that enhances cellular signals for vehicles.

The Fusion2Go 2.0 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: _____

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

Your Fusion2Go 2.0 signal booster package includes the following items:

- One SureCall Fusion2Go 2.0 signal booster
- DC power adapter
- One inside patch antenna
- One outside magnetic mount antenna



Fusion2Go 2.0
Amplifier



Power Adapter



SC-120
Inside Patch Antenna



Outside Magnetic-Mount
Antenna

Warning: Unauthorized antennas, cables, and/or coupling devices are prohibited by FCC new rules. Please contact FCC for details:
1-888-CALL-FCC. Changes or modifications not expressly approved by SureCall could void the user's authority to operate the equipment.

Step 1: Mount Outside Antenna

Place the magnetic-mount antenna on the top of your vehicle preferably toward the back, maximizing the distance from planned location of the inside patch antenna. Ensure that the antenna has at least a 12-inch radius clear of obstructions and other radiating elements, such as a radio antenna.

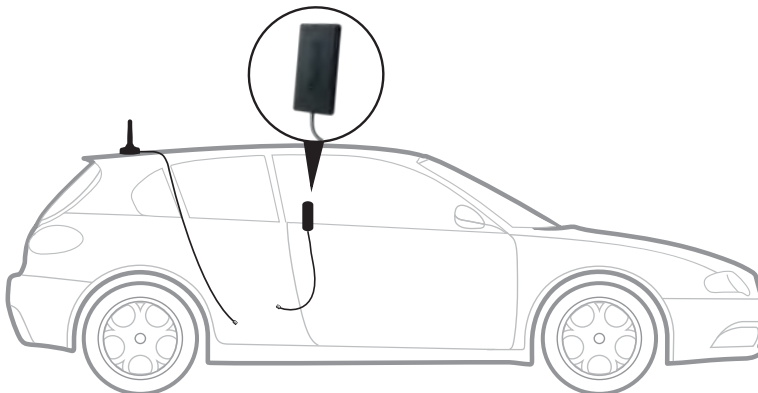
Next, run the cable from the outside antenna to the inside of the vehicle near the planned location of the booster (under the seat of the vehicle, or in the front or middle console). Run the outside antenna cord across the car's roof and under the front door insulation lining to hide and protect the antenna cable.

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



Step 2. Install the Inside Patch Antenna

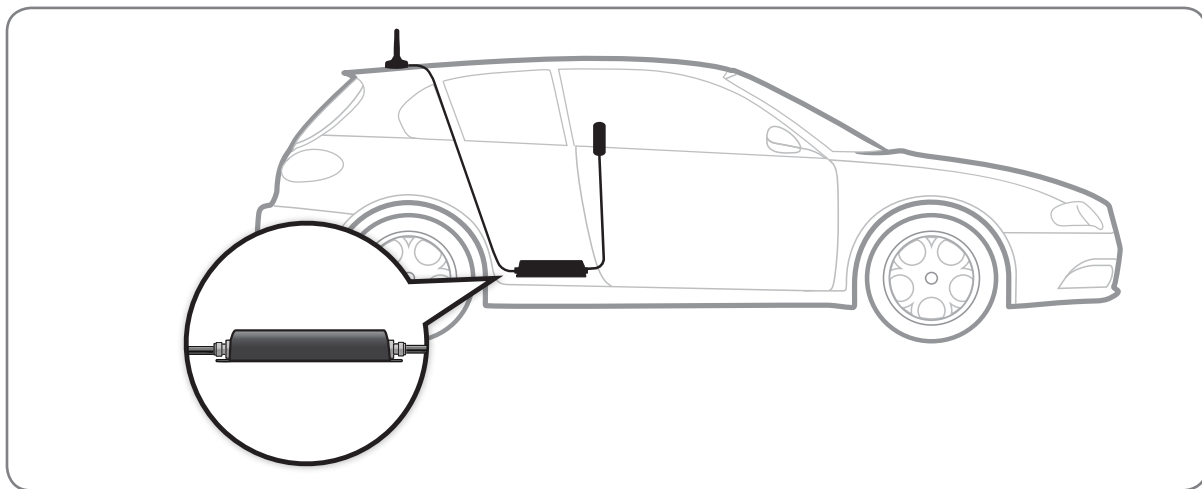
Find a location for the inside patch antenna that is within 2-3 feet of the typical cell phone location. Choose a location that is at least 4 inches (10cm) away from metal and affix the antenna to the chosen surface. Then run the connected cable to the planned location of the booster.



Step 3. Install the Booster

Place the booster under the seat of the vehicle or any convenient location within the vehicle. Choose a location that is away from excessive heat, direct sunlight or moisture and with proper ventilation.

Connect the cable from the outside antenna to the connection marked OUTSIDE and connect the cable from inside patch antenna to the connection marked INSIDE. Tighten the connections and wrap up any loose cable.

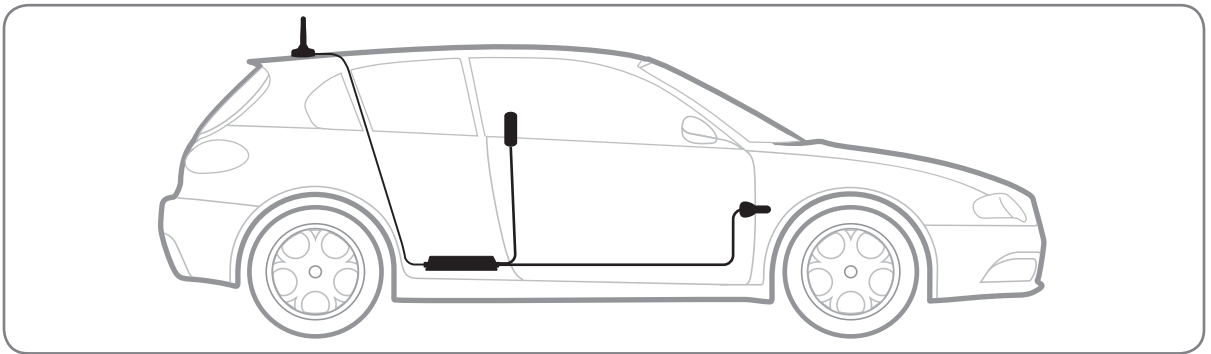
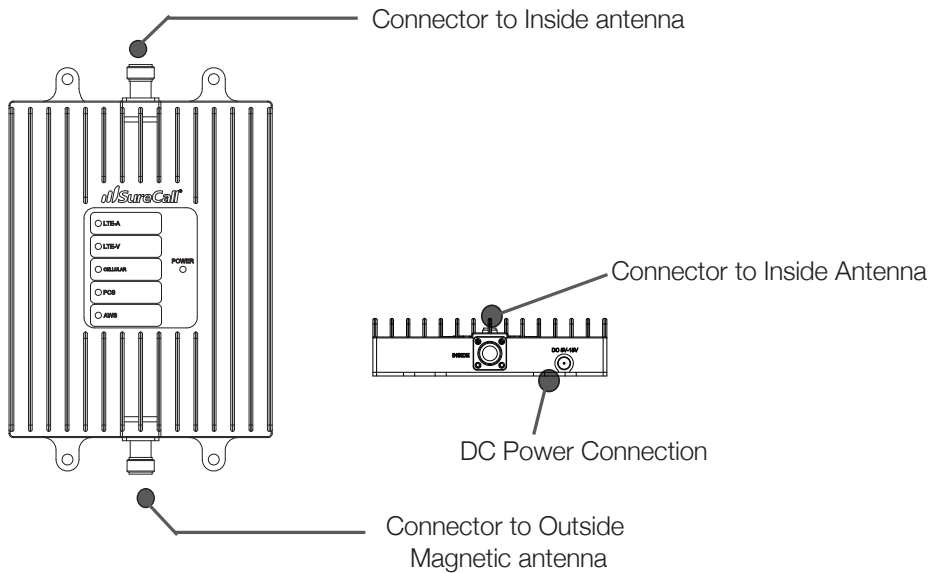


Step 4. Connect Power

Connect the power cord connector to the signal booster and insert the other end into your cigarette lighter adapter. The Power LED lights up to show that the signal booster is ready for use. The Alert LEDs flash 5 times to show the frequency band is operational.

Place a call in a location you have previously experienced poor signal and confirm that your phone is receiving a boosted signal.

- Note:
1. The patch antenna must remain at least 20 cm away from the body
 2. The Patch antenna must be at least 20 cm away from the phone or cradle that phone is sitting in.
 3. Laboratory tests show that patch antennas can work from as close as 2 ft. from the outside antenna if the patch antenna is facing away from the outside antenna.



LED Indicators

In the event Red LEDs appear either solid or flashing, further separation between the booster and outside antenna is recommended.

Note that the booster case may become warm during operation. This is normal.

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	<p>Verify that the LED on the booster is ON.</p> <p>Connect the power supply to an alternate power source.</p> <p>Verify that the power source is operational and the fuse is intact.</p> <p>If the POWER LED on the signal booster is OFF, return the power supply to SureCall. Contact tech support at to receive an RMA at: 1-888-365-6283 or support@surecall.com.</p>
After completing installation, signal has not Improved	<p>Verify that cable connections are tightly fitted to the booster.</p> <p>Try further separating the antennas.</p> <p>ⓘ Remember: 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.</p>

Specifications

Product	Fusion2Go 2.0	Fusion2Go 2.0 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 Impedance:	50 Ω	
Maximum Gain:	50 dB	47.8 dB
Noise Figure:	≤ 5 dB	
VWSR:	≤ 2.0	
Gain Adjustment:	20 dB (Automatic)	
Supported Standards:	CDMA, WCDMA, GSM, EDGE, HSPA+, EVDO, LTE and all cellular standards	
DC Power:	6-15V	
Maximum Output Power:	1 Watt EIRP	3 Watt EIRP
Cable:	SC-240	
RF Connectors:	FME Male (both ends)	
Power Consumption:	≤ 10 W	
Operation Temperature:	-4° to $+158^{\circ}$ F	
Dimensions:	5.625 x 4 x 1.125 inches	
Weight:	1.43 lbs	
IC ID:	RSN2GOMINI	7784A-2GOMINI

RF Exposure Warning:

The inside patch antenna must be installed so as to provide a separation distance of at least 20 cm (8 inches) from all persons

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.

Kitting Information

Antenna Kitting Information

Fusion2Go 2.0

Component	Prod No. Description	Gain					Notes
		LTE-A	LTE-V	800 MHz	1900 MHz	1700 MHz \ 2100 MHz	
Vehicle Kit 1							
Outdoor Antenna and Cable	SC200W SC174-10 ft (10 ft)	-2.3 dB	-2.3 dB	-2.3 dB	-5.8 dB	-3.98 dB \ -5.96 dB	
Indoor Antenna and Cable	SC110W SC174-10 ft (10 ft)	-2.7 dB	-2.7 dB	-3.2 dB	-5.8 dB	-3.98 dB \ -5.96 dB	Tabletop Antenna
Vehicle Kit 2							
Outdoor Antenna and Cable	SC208W SC174-12.5 ft (12.5 ft)	-3.16 dB	-5.15 dB	-5.65 dB	-2.85 dB	-3.34 dB \ NG	
Indoor Antenna and Cable	SC110W SC174-10 ft (10 ft)	-2.7 dB	-2.7 dB	-3.2 dB	-5.8 dB	-3.98 dB \ -5.96 dB	Tabletop Antenna
*All equivalent antennas and cables are suitable for use with the Fusion2Go 2.0							

Component	Prod No. Description	Gain					Notes
		LTE-A	LTE-V	800 MHz	1900 MHz	1700 MHz \ 2100 MHz	
Marine 1 Kit							
Outdoor Antenna and Cable	SC288W or Galaxy 5412-P SC240-40FN (40 ft)	-0.52 dB	-0.52 dB	-0.98 dB	-2.52 dB	-2.12 dB \ -2.92 dB	
Indoor Antenna and Cable	SC248W SC240-20FN (20 ft)	4.94 dB	4.94 dB	4.71 dB	6.44 dB	6.64 dB \ 6.24 dB	Wall Mounted Antenna
Marine 2 Kit							
Outdoor Antenna and Cable	SC288W or Galaxy 5412-P SC240-40FN (40 ft)	-0.52 dB	-0.52 dB	-0.98 dB	-2.52 dB	-2.12 dB \ -2.92 dB	
Indoor Antenna and Cable	SC302W SC240-20FN (20 ft)	0.44 dB	0.44 dB	0.71 dB	1.44 dB	0.64 dB \ 1.24 dB	
*All equivalent antennas and cables are suitable for use with the Fusion2Go 2.0							

Component	Prod No. Description	Gain					Notes
		LTE-A	LTE-V	800 MHz	1900 MHz	1700 MHz \ 2100 MHz	
Desktop / RV 1 Kit							
Outdoor Antenna and Cable	SC288W SC240-40FN (40 ft)	-0.52 dB	-0.52 dB	-0.98 dB	-2.52 dB	-2.12 dB \ -2.92 dB	
Indoor Antenna	SC120W	1.2 dB	1.2 dB	1.2 dB	3 dB	3 dB \ 3 dB	Tabletop Antenna
Desktop / RV 2 Kit							
Outdoor Antenna and Cable	SC288W SC240-40FN (40 ft)	-0.52 dB	-0.52 dB	-0.98 dB	-2.52 dB	-2.12 dB \ -2.92 dB	
Indoor Antenna and Cable	SC302W SC240-20FN (20 ft)	0.44 dB	0.44 dB	0.71 dB	1.44 dB	0.64 dB \ 1.24 dB	
*All equivalent antennas and cables are suitable for use with the Fusion2Go 2.0							

CW (Sinusoid Signals)

Frequency (MHz)	Bandwidth (MHz)	Input (dBm)	Mean Power (dBm)	Gain (dB)
Uplink: 1710-1755	82.0	-22.0*	24.1	46.1
Uplink: 1850-1915	73.7	-26.4*	19.8	46.2
Uplink: 824-849	36.8	-23.3*	24.2	47.5
Uplink: 698-716	25.0	-22.8*	25.0	47.8
Uplink: 777-787	22.7	-24.0*	23.0	47.0
<hr/>				
Downlink: 2110-2155	81.8	-31.5*	13.3	44.8
Downlink: 1930-1995	76.5	-26.3*	17.5	43.8
Downlink: 869-894	39.2	-31.6*	14.1	45.7
Downlink: 728-746	36.0	-28.4*	18.3	46.7
Downlink: 746-756	36.3	-25.8*	17.6	43.4

*Input power level is decreased before reaching AGC -0.5 dB to maintain compliance with the intermodulation product of -13 dBm.
Mean power: Measurements obtained on section 6.2 where $P_{mean} = P_{01} + 3dB$

FCC and IC Information

SureCall has made a good faith effort to ensure the accuracy of the information in this document and disclaims the implied warranties of merchantability and fitness for a particular purpose and makes no express warranties, except as may be stated in its written agreement with and for its customers. SureCall shall not be held liable to anyone for any indirect, special or consequential damages due to omissions or errors. The information and specifications in this document are subject to change without notice.

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FCC Notice:

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.

Important: Before installing your booster you need to register it with your carrier. You can do so online 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

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

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.

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.

15.19 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.

Industry 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 régléments 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.

Three-Year Product Warranty

Register at 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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