



## SureCall FLARE-DB Dual Band Booster User Manual

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The SureCall logo, featuring the word "SureCall" in a bold, italicized, sans-serif font.

**SureCall FLARE-DB Dual Band Booster**



## INTRODUCTION

NOTE: Normal operation is indicated by LEDs that are OFF -or- YELLOW Flashing. Only the presence of RED LEDs indicate the potential need for adjustments. Note that power cycling the booster after each adjustment may be necessary

<u>Position</u>	<u>Condition</u>	<u>Indication</u>
-		

Left or <u>Right</u> _____	OFF	The booster is operating normally
Left	Yellow <u>Flashing</u> _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	Automatic Gain Control (AGC) is self-adjusting. This is part of normal operation.
Right	Yellow Fl ashing	Indicates Automatic Gain Control (AGC) is active and the booster is self adjusting. This is part of normal operation and, whether intermittent or ongoing, does not require action.

Left	Red Flashing	<p>The booster is receiving too strong of a signal which may cause one or more of the supported frequency bands to shut off. Unaffected frequency bands will not be impacted, however, and continue to receive enhanced signal.</p> <p>If this happens but your signal is still improved: It is possible that the impacted frequency bands are not used by your carrier and thus, no action is needed.</p> <p>If this happens and your signal has not improved, consider the following options:</p> <ul style="list-style-type: none"> <li>• Relocate the outside antenna to a location where the signal is weaker.</li> <li>• Adjust the angle of the Yagi antenna by rotating it in small increments away from cell tower until Red flashing stops.</li> <li>• If using an omni antenna, try shielding the antenna by partially or completely obstructing one side of the antenna. Shielding materials include metal or masonry, for example. As a last resort, utilize signal attenuators.</li> </ul>
Right	Red/Yellow Alternately Flashing	<p>One or more of the supported frequency bands have shut off. Unaffected frequency bands will not be impacted, however, and continue to receive enhanced signal.</p> <p>If this happens and service quality has not improved, consider the following options:</p> <ul style="list-style-type: none"> <li>• Try increasing antenna isolation by adding vertical distance between the outside antenna and Flare booster.</li> <li>• Ensure the Yagi antenna is not aimed in the direction of the Flare booster.</li> <li>• Check for sources of interference such as, cellular modems or hotspots. Added separation from the Flare booster may be needed.</li> </ul> <p>Keep in mind, identifying the setup that yields the best possible results for your environment will come from testing — balancing between elimination of interference while receiving the best possible signal.</p>

## SPECIFICATION

Uplink Frequency Range (MHz):	698–716 / 776–787 (Bands: 12, 13)
Downlink Frequency Range (MHz):	728–746 / 746–757 (Bands: 12, 13)
Donor/Server Port Impedance:	75 ohm / 50 ohm
Maximum Gain:	72 dB
Noise Figure:	7 dB
VSWR:	≤2.0
Supported Standards:	CDMA, WCDMA, GSM, EDGE, HSPA+, EVDO 4G and all cellular standards
AC Input:	Input: AC 110 – 240 V, 60 Hz ; Output: DC 5V / 3A
Maximum Output Power:	1 Watt EIRP
Cable:	RG6 (50 ft.)
RF Connectors:	Donor port: F Female, Server port: Integral
Power Consumption:	<12W
Weight:	1. 8125 lb.
Dimensions:	5.125 × 7.25 × 5.625 inches
Certifications: (Flare DB+)	FCC ID: RSNFLARE-DB

	PreAGC			PreAGC		
	Pulse GSM			4.1 MHz AWGN		
Frequency (MHz)	Input (dBm )	Output (dBm)	Gain (dB)	Input (dBm )	Output (dBm )	Gain (dB)
Uplink: 698-716	-38.1	24.6	62.7	-37.7	25.2	63.2
Uplink: 777-787	-39.4	24.1	63.5	-37.9	24.5	62.4
Downlink: 728-746	-49.9	12.5	62.4	-49.6	12.6	62.2
Downlink: 746-757	-49.8	12.3	62.1	-49.4	12.4	61.8

### Kitting Information


Component	Product #	Gain/Loss		Note
		LTE-A	LTE-V	
Outdoor Antenna*	SC-289W	3 dBi	3 dBi	
	SC-231W	8 dBi	8 dBi	
Outdoor Cable*	SC-RG6-50	3.5 dB	3.5 dB	50 Feet or longer
Indoor Antenna*	SC-323W	2.5 dBi	2.5 dBi	

Component	Product #	Maximum Gain	Minimum Gain
Outdoor Antenna*	SC-289W	3 dBi	3 dBi
	SC-231W	8 dBi	8 dBi
Indoor Antenna	SC-323W	2.5 dBi	2.5 dBi

\*Note: The Flare DB+ booster is suitable for use with all equivalent and lower gain antennas, as well as, equivalent or greater lengths of cable.

Component	Product #	Maximum Gain	Minimum Gain
Outdoor Antenna*	SC-289W	3 dBi	3 dBi
	SC-231W	8 dBi	8 dBi
Indoor Antenna	SC-323W	2.5 dBi	2.5 dBi

### Documents / Resources

	<a href="#">SureCall FLARE-DB Dual Band Booster</a> [pdf] User Manual FLARE-DB, FLAREDB, RSNFLARE-DB, RSNFLAREDB, FLARE-DB Dual Band Booster, Dual Band Booster, Band Booster, Booster
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### References

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