

# ***SureCall™***

## **CM2100 62dB**

### **AWS Band Building Repeater**

## **User Manual**



**Model: C2100 62dB**  
FCC ID: RSNAWS-75UNDER  
Canada IC: 7784A-AWS75



## **CONTENTS OF THE PACKAGE**



1. CM2100 AWS Amplifier with connectors: N female type
2. Mounting Kit
3. 110V AC Power Adaptor
4. User Manual (this document)

The following items need to be purchased separately before installation:

1. Dome antenna or other type of indoor antenna.
2. Yagi antenna or omni directional antenna for outdoor use.
3. CM400 cable that connects indoor antenna with the amplifier, length depends on actual situation.
4. CM400 cable that connects outdoor antenna with the amplifier.

For further help, *please consult the Cellphone-Mate website ([www.Cellphone-Mate.com](http://www.Cellphone-Mate.com)) or call toll free at 888-365-MATE.*

## **SAFETY NOTES**

**The human body should always be separated from the indoor antenna of the Amplifier by at least 10 inches (25cm).**

Don't expose this product to extreme high or low temperatures. For example, putting the Amplifier under direct sunlight for too long may cause it to overheat and damage the electronic components inside. ***There are no consumer serviceable or modifiable parts inside this Amplifier product. Alteration or abuse of the Amplifier or other components will void this product's warranty, and could be dangerous to the user.***

## **INSTALLATION INSTRUCTIONS**

**Warning: Never power on the units before completion of the installation.**

The signal is received by the outside antenna from the cell tower, then AMPLIFIED and transmitted to your phone through the inside antenna. When the phone transmits, the signal is received by the inside antenna, then AMPLIFIED and transmitted to the cell tower through the outside antenna.

You can always refer to the picture on the next page which is there to help you through each step of the installation.

- STEP 1. Check to make sure the Power Switch on the amplifier is turned off.**
- STEP 2. Install the CM2100 62dB amplifier on the wall with the mounting kits supplied.**
- STEP 3. Connect the Inside Antenna to the side that shows "Indoor Ant." using CM400 cable.**
- STEP 4. Connect the Outside Antenna:** Select an outside mounting location. For best performance, try to keep the antenna on top of the roof. The outside antenna should be located in an area with at least a 12" radius clear of obstructions, and other radiating elements. Use CM400 cable to connect to the amplifier.

**NOTE:** Keep the separation distance between the inside and outside antennas to at least 75 ft apart to avoid RF oscillation. If not, then the amplification gain must be reduced with gain control switches on both sides of the unit for uplink and downlink.

STEP 5. Connect the Power Cord.

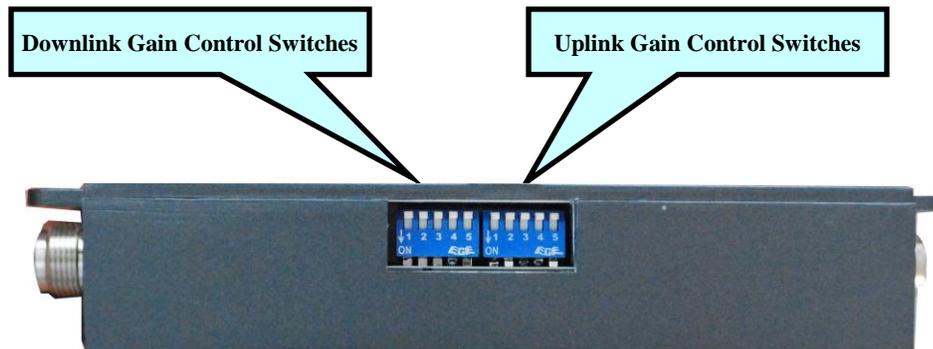
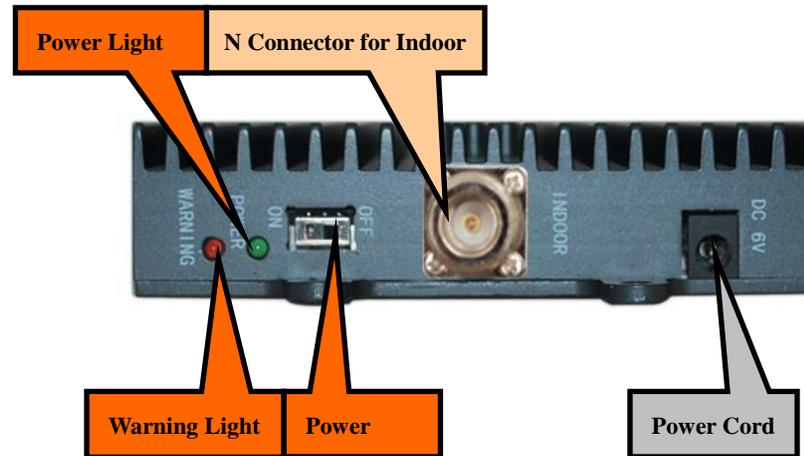
STEP 6. Turn the Power Switch on

**Warning:** To prevent damage to the Amplifier, before you plug in the Amplifier to an AC power outlet, please make sure that both sides are already connected with the cables from both the outdoor and indoor antennas.

**WARNING:** after the power is turned ON, and before making any cellular phone calls, if the warning light is ON, oscillation is happening. POWER OFF immediately, then reduce both the uplink gain and downlink gain via the gain control switches on the side panel, or further increase separation distance between the two antennas, or do both until the power warning light is not ON when you are not making cellular phone calls.

Note: 1. Power lights will always be on after you power up.

STEP 7. After solving all oscillation problems, users can make cell phone calls to test how the repeater system works, adjusting the gain as needed.



**Safety Warning:**

- 1. The input voltage for the Amplifier is 6V. DO NOT use this Amplifier with a regular 12V power supply. If a 12-volt power supply is connected directly to this Amplifier, it will be damaged.**
- 2. Never plug in the power supply to the amplifier without attaching the outdoor antenna and indoor antenna to the amplifier.**
- 3. Ensure that the distance between inside and outside antennas is a minimum of 75 feet from the amplifier.**
- 4. If the Power Warning Light is on when you are not making cellular phone calls, DO NOT use the amplifier, turn it off immediately, since it may cause damage to the amplifier.**

## **AMPLIFIER GAIN CONTROL**

Each Attenuation Gain Switches control a certain level of gain. Each button has a certain dB gain, which is on the side of the amplifier. Those values are 16, 8, 4, 2, and 1 for the five switches respectively.

## **TROUBLESHOOTING GUIDE**

During operation, if the Amplifier interferes with your radio or other electronic receivers, move the Amplifier further away from those devices.

For a list of Frequently Asked Questions and a complete and up-to-date Troubleshooting Guide, please visit our website at:

**[www.Cellphone-Mate.com](http://www.Cellphone-Mate.com)**

You can also consult a Cellphone-Mate technical specialist directly by sending e-mail to us at:

**[info@Cellphone-Mate.com](mailto:info@Cellphone-Mate.com)**

Or write to:

**Cellphone-Mate, Inc.  
48820 Kato Rd. Suite 300B  
Fremont, CA, 94538 U.S.A.**

## **WARRANTY**

- Cellphone-Mate, Inc. 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 Cellphone-Mate, Inc.'s option, to repair or replace any product or part thereof which shall within TWO YEARS of purchase as determined by examination by Cellphone-Mate, Inc., proves to be defective in material and/or workmanship. Cellphone-Mate Inc must first authorize warranty returns in writing. Disassembly of any Cellphone-Mate, Inc. product by anyone other than an authorized representative of Cellphone-Mate, Inc. voids this warranty in its entirety. Cellphone-Mate, Inc. 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

Cellphone-Mate, Inc. for repair and Cellphone-Mate, Inc. 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.

3. 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.
4. Products sold by Cellphone-Mate, Inc. shall not be considered defective or non-conforming to the Buyers' order if they satisfactorily fulfill the performance requirements that were published in the product specification literature, or in accordance with samples provided by Cellphone-Mate, Inc. This warranty shall not apply to any products or parts thereof, which have been subject to accident, negligence, alteration, abuse, or misuse. Cellphone-Mate, Inc. makes no warranty whatsoever in respect to accessories or parts not supplied by it.
5. 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.**

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6. 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.
7. 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.