



**Say Goodbye to weak signals, dropped calls and slow internet searches.**

**Say Hello to 5BARz.**

## **CellLynx 5BARz™ Road Warrior USER GUIDE**



Thank you for choosing the 5BARz™ Road Warrior -- the first highly reliable, affordable plug 'n play cell phone booster. Now you're ready to enjoy clearer voice calls and faster internet. Follow these quick steps to be up and running in minutes – with 5BARz *no professional installation services are needed.*

### **I. Parts List**

| <b><u>Quantity</u></b> | <b><u>Description</u></b>                             |
|------------------------|---|
| 1                      | 5BARz Road Warrior Unit, <b>MODEL MD015A-800/1900</b> |
| 1                      | Cigarette lighter adapter (CLA)                       |
| 1                      | Phone cradle  |
| 1                      | Wall power supply                                     |
| 1                      | Velcro strips   |

### **II. Quick steps to install 5BARz Road Warrior in your vehicle**

**Step 1** Connect the flat circular disk on cigarette lighter adapter and the circular indentation on the back of the phone cradle by matching up the arrows on each piece and twisting to secure. Rest this piece near the cigarette lighter, 12V power port in your vehicle. *(There is no need for the wall power supply for vehicle use.)*

**Step 2** Insert the cable attached to the phone cradle into the port labeled "VDC" located on the back of the 5BARz unit. Place the back of the 5BARz unit close to the windshield, hiding the cable whenever possible.



**Step 3 Adhere Velcro strips** to the bottom of the 5BARz Road Warrior unit and affix the counterpart Velcro adhesive strip to the dashboard. Connect the Velcro on the unit to the Velcro on the dashboard so the unit is secure.\* See Important notes

**Step 4 Plug the connected phone cradle/cigarette adapter** into the cigarette lighter pushing down to make sure it connects. The arm of the adapter is bendable to fit your vehicle's area. Place your turned-on phone in the cradle and adjust the side clasps to fit snugly by depressing the clasp release on the side of the cradle and adjusting the clasps in and out as needed.

**Step 5 Find the on/off switch** on the side of the phone cradle and turn the unit on and start the car. The blue LED light on the front of the 5BARz should be on within 10 seconds.

**Observe the bars on your phone as you turn the 5BARz™ on** -- With the phone in the holder, you should see an increase in bars in approximately 10 seconds. Now you have more BARz for better reception and are ready to use your phone and your Bluetooth® device, headset or speakerphone.

**Note:** *The 12-Volt source that is providing power may not power off when you turn your car off. If the power to the 5BARz is on when the vehicle is turned off, unplug or switch off the 5BARz when leaving the vehicle – continuous operation without the engine running will drain the battery after some period of time (typically one day or more.)*

**Note:** *If multiple cigarette lighter sockets are available, try each to determine which location offers the best performance as measured by BARz on the phone.*

### **Important notes:**

**Note:** *The cigarette lighter power supply and phone cradle must be installed at least 20 cm (or approximately 8-inches) away from all persons during normal operation to comply with the FCC's radiofrequency radiation exposure requirement.*

**Note:** *Do not place over an airbag. Please check with your state's regulatory requirements for placement of a device on the dashboard.*

**Note:** *It is the responsibility of the user to ensure that the 5BARz Road Warrior unit is safely secured to the dashboard. Mount the 5BARz on an area of the dashboard where passengers cannot be injured if the 5BARz separates from the dashboard.*

### **III. Quick steps to use indoors**

The 5BARz Road Warrior was originally designed for in-vehicle use, however our customers found it also works great indoors. If you want to use the 5BARz Road Warrior indoors at your home, office or hotel room, please remember it was not designed to cover the whole room. The Road Warrior works best indoors when resting in the cradle – a blue-tooth enabled headset will give you increased mobility within 10-15 feet of the 5BARz unit.



**Step 1** Place the 5BARz Road Warrior in the area where you want more BARz -- usually the closer to a window the better the performance.

**Step 2** Insert the cable attached to the phone cradle into the port labeled "VDC" located on the back of the 5BARz. Place the phone cradle as far apart from the 5BARz as the cable will stretch for optimal performance.

**Step 3** Pry open the easel-like stand on the back of the cradle to hold the phone cradle in an upright position. Place your turned-on phone in the cradle and adjust the side clasps to fit snugly by depressing the clasp release on the side of the cradle and adjusting the clasps in and out as needed. (*There is no need for the cigarette lighter adapter for indoor use.*)

**Step 4** Insert the cord from the wall mount power supply line into the power port on the back of the 5BARz. Next, plug the power supply into the wall socket (use an extension cord for longer distances). Once the unit is plugged in you will see the blue LED lights in about 10 seconds.

**Observe the bars on your phone after you plug in the 5BARz.** With the phone resting in the holder, you should see an increase in bars in approximately 10 seconds. Now you have more BARz for better reception and are ready to use your phone and Bluetooth® device, headset or speakerphone.

## Important Notes

**Note:** *The phone holder must be placed at least 20 cm (or approximately 8-inches) away from all persons during normal operation to comply with the FCC's radiofrequency radiation exposure requirement.*

**Note:** *For optimal performance place 5BARz in the location with the best serving signal as indicated on your phone. (See [www.cellynx.com/support](http://www.cellynx.com/support) for more details)*

**Note:** *Unplug the power supply when not using the 5BARz*

**Note:** *The cell phone can be removed from the phone cradle when using the 5BARz™. However, a Bluetooth® device paired to the cell phone while it is resting in the phone cradle is recommended for best results.*

## Operation Tips

- The 5BARz Road Warrior is compatible with every carrier in the US and Canada except "iDEN" phones used by Nextel, Southern LINC, MiKE (Canada); 3G TMobile's 3G services (TMobile's voice service is compatible) and WiMax.



- There must be a signal in the area for 5BARz to boost. Areas where there is no signal can not be helped with the 5BARz product.
- The 5BARz Road Warrior includes a USB connect port on the side of the phone cradle enabling you to power your phone while using the 5BARz. This cable comes standard with most phones. Simply connect the cable to the phone cradle and your phone. Contact your phone manufacturer if you need this cable.
- For increased coverage area/range and more convenient product usage consider purchasing an additional antenna. See [www.cellynx.com/products](http://www.cellynx.com/products) for more details.
- The LED light on the front of the unit changes colors to give you operation status

| LED Color     | Description   | Action  |
|---------------|---|---|
| Blinking blue | When unit is turned on it blinks blue while self-configuring  | None  |
| Solid blue    | Unit is ready and operating   | None  |
| Solid yellow  | This is a temperature warning   | Turn off the unit and restart in 10 minutes   |
| Blinking red  | <p>These are unit-protection signals indicating one of the following situations</p> <ul style="list-style-type: none"> <li>• the phone cradle and 5BARz unit are too close together</li> <li>• 5BARz unit is too close to a cellular base station</li> <li>• 5BARz is overheated</li> </ul> | <p>Further separate the phone cradle from the 5BARz unit</p> <p>As you drive past the station the blue light will reappear</p> <p>Turn off the unit and restart in 10 minutes</p> |
| Solid red     | Possible internal failure   | Turn the unit off and restart in 10 minutes. If you get a solid red signal again contact support at <a href="http://www.cellynx.com/support">www.cellynx.com/support</a>          |



## Troubleshooting

Go to [www.cellynx.com/support/register](http://www.cellynx.com/support/register). Once you've registered you'll have access to detailed troubleshooting information and contact details.

## Optional Antennas

The 5BARz Road Warrior has an external antenna option available. Use of an external antenna can improve performance and allows more flexibility for locating the 5BARz unit within the vehicle. For additional information related to the external antenna use and for ordering please go to Cellynx.com. (Also, please see "Antenna Requirements" section below.)

## FCC and IC Information

FCC ID: XGLMD015

IC: 8272A-MD015

The 5BARz™ Road Warrior cellular signal booster has been tested and found to comply with the limits specified in Parts 15, 22 and 24 of the FCC Rules, as well as Industry Canada Radio Service Standards, RSS-131. However, there is no guarantee that interference will not occur in a particular installation. Operation is subject to the following conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

Only accessories authorized by Cellynx Group, Inc. are approved for use with the 5BARz™ Road Warrior cellular signal booster. Modifications to the original equipment, or use of accessories that are not authorized by Cellynx, Inc. for use with the 5BARz™ Road Warrior, could void the user's authority to operate the equipment.

## Technical Information as required by Canada RSS-131

The nominal input and output impedance of the 5BARz™ Road Warrior is 50 Ohms.



## Frequency, Gain and Power Specifications

| Band              | Operating Channel Frequency Band | Nominal Max Operational Gain | Nominal Bandwidth | Rated Mean Output Power |
|-------------------|----------------------------------|------------------------------|-------------------|-------------------------|
| Cellular Downlink | 869 – 894 MHz                    | 45 dB                        | 38 MHz            | 80 mW                   |
| Cellular Uplink   | 824 – 849 MHz                    | 42 dB                        | 42 MHz            | 125 mW                  |
| PCS Downlink      | 1930 – 1990 MHz                  | 45 dB                        | 77 MHz            | 70 mW                   |
| PCS Uplink        | 1850 – 1910 MHz                  | 42 dB                        | 82 MHz            | 85 mW                   |

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.

The 5BARz™ Road Warrior has internal gain™ control that ensures that the output power will not exceed the requirements as specified in the paragraph above.

### Antenna Requirements

This device has been designed to operate with the antennas listed below, and having a maximum gain as shown in the chart below specifying maximum allowed antenna gains. Antennas not included in this list or having a gain greater than the listed gains are strictly prohibited for use with this device. The required antenna impedance is 50 Ohms.

### Optional Antennas List

Cellynx Model MA017

Cellynx Model MA018

NOTE: Please go to [Cellynx.com](http://Cellynx.com) for antenna details



## Maximum Allowed Antenna Gains

| Band              | Operating Channel Frequency Band | Nominal Max Operational Gain |
|-------------------|----------------------------------|------------------------------|
| Cellular Downlink | 869 – 894 MHz                    | 9.6 dBi                      |
| Cellular Uplink   | 824 – 849 MHz                    | 7.8 dBi                      |
| PCS Downlink      | 1930 – 1990 MHz                  | 7.9 dBi                      |
| PCS Uplink        | 1850 – 1910 MHz                  | 5.9 dBi                      |

Visit [www.cellynx.com](http://www.cellynx.com) for additional information or troubleshooting tips

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