

### 1 Requirements:

- Cradlepoint® IBR600E-SP or IBR600LE2-SP Modem (Fig. 1)
- Sonitrol FlexiP, iBase, or FlexiBase control panel with Keypad (Fig. 2)
- 1.5A @ 12VDC available power
- Personal computer with LAN adapter (Fig. 3)
- Cradlepoint® configuration files:
  - "192 IBR600 dual LAN Rev A.bin"
  - "192 iBase ONLY alternate config Rev C.bin"
  - "10 iBase ONLY alternate config Rev C.bin"



#### UL Required Hardware:

Altronix® Power Supply PN: AX-300ULXPDB

#### Recommended Version Requirements:

- FlexiP 0A.07 (Boot A.03) or higher
- iBase 0A.57 (DAS "Blackfin" 0A.09) or higher
- FlexiBase 0A.17 (Boot A.03) or higher
- Keypad 0A.27 or higher
- SONIP version 3.1.47.1 or higher



Figure 1



Figure 2

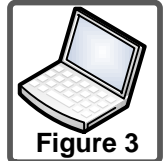


Figure 3

### 2 Pre-Install Signal Check:

- Insert the activated SIM card, if applicable (IBR600LE2-SP only)
- Power up the IBR600 and connect to PC via Ethernet cable. See Figure 4.
- On your PC, open a web browser and Go to the URL **192.168.0.1**
- Enter the default password; found on the bottom of the IBR600. (CASE SENSITIVE)
- From the Dashboard, confirm that the Internet State = **Connected**.

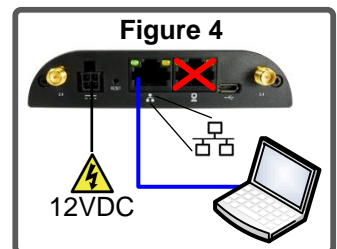


Figure 4

#### Wireless Innovations (Sprint™ Partner)

Cell connectivity, service and device technical support, and general questions.

For more information on service plans, see: PB14-0021... Sonitrol Cell Backup and Primary with Cradlepoint IBR600

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#### Trouble Connecting?

Try using the Cradlepoint firmware version 5.3.0

<http://resource.sonitrol.com/library/asset/document/cradlepoint-ibr600-firmware-version-530>

### 3 Router Configuration:

- Log into the IBR600. (see Step 2)
- Find the System Settings drop down.
- Select System Software.
- In the 'System Config Save/Restore' field, select Upload from file button.
- Select the Choose File button.
- Browse your PC for the Cradlepoint® router configuration file, named: "192 IBR600 dual LAN.bin"
- Click the Restore Settings button.

#### Note

- After completing this step:
- IBR600 Gateway (login URL) is changed to **192.168.0.17**
  - IBR600 password is changed to **65535**

### 4 Mounting the IBR600:

1. Install the two included modem antennas to the top antenna ports (marked with ▲) of the IBR600. (Figure 7). Ensure they are **NOT parallel to the ground**; they should point towards the sky or ground.
2. With the IBR600 powered, the IBR600's signal strength LED's shall be used to verify signal strength. (Figure 5)
3. Mount the IBR600 in a secure location with strong signal strength using the mounting bracket hardware that comes included. (Figure 6)

**Location:** **DO NOT** mount the IBR600 inside of the alarm panel enclosure; signal strength will be greatly reduced!

**Extra Antennas:** The bottom antenna ports are for Wi-Fi and don't need to be installed. Leave these antennas inside of the enclosure so they may be used in the future if needed.

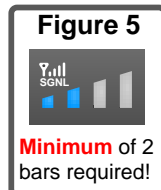


Figure 5

Minimum of 2 bars required!

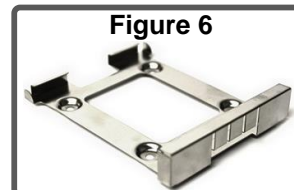


Figure 6




Figure 7

Both modem antennas shall be connected to the top facing ports "▲", pointed towards the ground or sky

### 5 Wiring:

**5A** Select a method below to power the IBR600. (UL or Standard)

#### **UL** Required Altronix® supervised installation:

- Cut the IBR600's power supply cable near the transformer.
-   **Identify the DC polarity** of each wire!
- USE CAUTION** while securing the cut wires to a 12VDC Out terminal on your AX-300ULXP8 supervised power supply.
- Wire AC and Battery Fault loops to Sonitrol panel. Have CS program these accordingly.

#### Standard power methods (2):

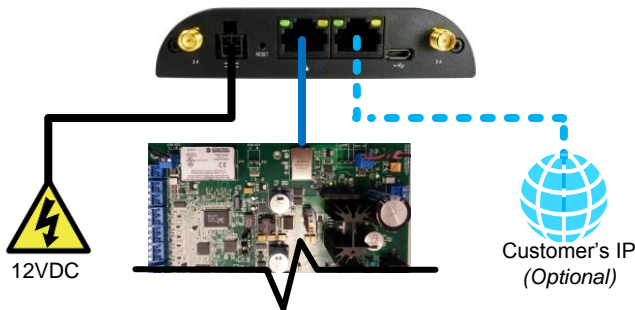
1. Plug the IBR600's included transformer into a UPS.
2. Plug the IBR600's included transformer into a 120VAC outlet.

**WARNING:** If AC power to the IBR600 transformer fails while using method 2 above and no phone line is configured for Sonitrol panel, the only way to identify the failure will be a No Contact Alarm one hour after the panel misses its next scheduled Contact Check.

**5B** Connect the IBR600 to the FlexIP, iBase or FlexiBase.

- iBase**
- Connect the **iBase** WAN to either Ethernet port on the IBR600 using an Ethernet cable.

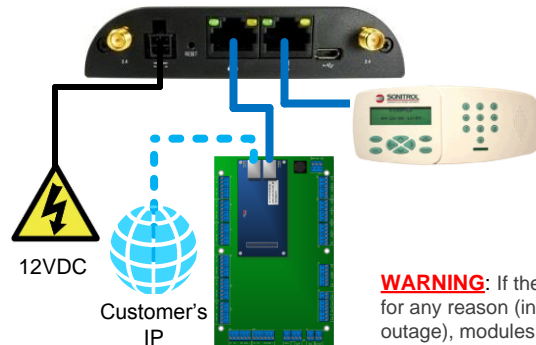
**NEVER** connect a Module, or Keypad to the router in **iBase** installations!



**Optional - Customer IP Primary w/ Cell Backup:** The iBase configuration is able to use the WAN port for a wired network connection as primary communication, automatically making the cellular service a backup. Customers firewall must be configured for this – See Sonitrol **iBase** Installation Manual (PN:19810005) for firewall details. Refer to Step 8 of this guide for full details on utilizing the WAN port for wired **iBase** network connections.

- FlexIP & FlexiBase**
- Connect the **FlexIP \ FlexiBase** LAN to either Ethernet port on the IBR600 using an Ethernet cable.

- Use the remaining Ethernet port to connect a module or Keypad.



Connect to **FlexIP's WAN** instead of LAN, if using **Comm Sequence 3**.

**WARNING:** If the IBR600 fails for any reason (including power outage), modules which pass data through the IBR600 to the **FlexIP / FlexiBase** will go down while the IBR600 is down. A battery backup is always recommended. Refer to 5A for details on battery backup.

### 6 Panel Programming:

Enter your Technician Code to access the 'System Menus\Programming Mode\Comms Info' menu.

In 'Comm Sequence' select the choice that applies to your installation and ensure that Central Station has programmed the same option as you.

Value	Comm Sequence		
	1st Path	2nd Path	3rd Path
2	IP	-	-
3	Modem	IP	-
4	IP	Modem	-
5*	IP	Cell	-
6*	IP	Cell	Modem
7*	Cell	-	-

\*Only available on FlexIP.

- Enter your account information, and your Central Stations unique NNC#, RX IP 1, RX PORT 1, SONIP IP 1, SONIP IP 2.

- iBase, or FlexIP connected via WAN port:** DHCP = 1  
Leave DHCP = 0 if using FlexiBase, or Comm Sequence 5, 6, or 7.

- Exit the Keypad System Menus.

Ensure that **Central Station** applies the following programming values to the account:

- Provide CS with **MEID** (back of router) and **ICCID** if applicable (on SIM card)
- In **SonIP**: Polling Frequency = 75, ACK Wait = 40 (Non-UL Certified)
- In **D6200**: Panel Poll = 315, Ack Wait = 40 (Non-UL Certified)
- Download panel options** from SonIP Central Station.

**7**

#### Test:

- Central Station must **Reset** the Panel.
- Remove all other communications from the panel, leaving **only the Cellular**.
- Send a **Test Signal** from a keypad. Ensure that Central Station receives this.
- Arm a partition and send an **Audio Activation**. Ensure the Central Station can hear the audio clearly.
- Central Station must **Reset** the Panel and confirm that there are no alarms reporting.
- Reconnect** all communication paths.
- Log into router via web browser, and **save a screenshot of the Status/Dashboard** for your records.

#### WARNING

While servicing, downloading, or uploading a Cell equipped panel, disconnect the Cradlepoint router so that data usage does not exceed the wireless data limit!

**8**

#### Using wired internet through the IBR600 to the iBase:

**iBase ONLY STEP (Not applicable on FlexiBase)**

**8A.** Obtain a valid IP address, Gateway, Subnet Mask, and DNS Server from the customer's network administrator.

**8B.** Apply the necessary Cradlepoint configuration file.

1. Unplug the iBase WAN cable from the IBR600 LAN port and connect your PC in its place.
2. Log into the router:
  - Open a web browser on your PC and go to address: 192.168.0.17
  - Enter the password: 65535
3. Find the System Settings drop down.
4. Select System Software.
5. In the 'System Config Save/Restore' field, select Upload from file button.
6. Select the Choose File button.
7. Browse your PC for the Cradlepoint® router configuration file, named: "**10 iBase ONLY alternate config Rev C.bin**".

**Note:** If IP address provided falls within the range of 10.0.0.1 – 10.0.127.255, use the file "**192 iBase ONLY alternate config Rev C.bin**" instead.

8. Click the Restore Settings button.

**8C.** Assign the IP Address to the IBR600

1. In a web browser, go to "192.168.0.17" or "10.0.0.17".
2. Log into the router using the password 65535.
3. Expand the Internet tab, and select Connection Manager.
4. In the WAN Interface area, select Ethernet: Ethernet 1.
5. Select the Edit button.
6. In the WAN Configuration window, select the Ethernet Settings tab.
7. Change the Connection Method drop-down to Static (Manual).
8. Fill in the blank fields using the information provided from the customer.

**Note:** If no Primary DNS Server was provided, then use a public DNS such as: 8.8.8.8.

9. Select the Submit button.

10. Verify successful network connection:

- Go to the Connection Manager window
- Ensure that a green circle is beside Ethernet: Ethernet 1
- Ensure the State column shows Connected.

**8D.** Test the new WAN connection.

1. Disconnect the RJ-11 dial modem cable from the iBase if connected.
2. Connect the iBase WAN to the IBR600's LAN
3. Connect the wired internet connection to the IBR600's WAN Port (right)
4. Log into router, from **Internet>Connection Manager**, un-check the enabled checkbox for everything except "Ethernet: Ethernet 1". (Cell must be disabled to test the wired network).

5. Ensure that your iBase is able to :

- Send a **Test Signal**
- Receive an Options **Download**
- Arm**
- Send **Audio for more than 75 seconds continuously**
- Accept a **Reset Panel** command from SonIP

6. Restore all communication paths to your panel, including those cell paths that were disabled from the IBR600's web interface.

7. Log into router via web browser, and **save a screenshot of the Status/Dashboard** for your records.