Signal Boosters & Alarm.com

Signal Boosters

Signal boosters should be used in cases where there is little to no cellular phone coverage. It is recommended that an 18 foot antenna is tried to increase signal strength before purchasing and attempting to use an antenna booster. Adding a booster does not guarantee cellular coverage and the signal strength should be tested after installing the antenna booster.

Expected Results

Based on our own tests, signal boosters typically increase signal strength by about one bar.

Power Supply Information

If a system with a signal booster loses power and it does not have a UPS backup, the booster will stop boosting the signal, which could cause a panel to lose connectivity with Alarm.com. Certifications require systems to maintain connectivity for certain periods of time after losing power, so you should always use a UPS backup when installing a signal booster with an Alarm.com system.

Alarm.com Kit

A kit from Alarm.com includes a signal booster, a battery backup, and a SMA to MMCX connector.
- Signal booster (ClearRF M2M 25dB Amplifier)
- MMCX to SMA Connector (Needed for all 2gig panels and all 4.x series modules with GE panels require an MMCX to SMA connector to connect the booster to the module)
- UPS backup (CyberPower CyberShield CS24U12V-12 - UPS - 24 Watt 12 Ah)
  - Note: Not all UPS backups have the ability to power a panel for an extended period of time in the case of a power outage. We have tested several backups and recommend this backup for Alarm.com installations.

Equipment Placement Notes

- The booster and UPS backup together are fairly bulky, so you may want to place them in an out-of-sight area.
- The antenna should be placed inside the home, and ideally near the perimeter close to a door, window, attic, or other area where the antenna is most likely to get service.
- The booster can get fairly warm so do not place it in an area where that could cause any issues.
- The antenna has a magnetic base that allows for easy installation on metal surfaces.

System Picture:

Approximate Cord Lengths
- Panel : Booster – 3.5 ft
- Booster : Antenna – 12 ft
- Booster : Backup – 4 ft
- Backup : Outlet – 10 ft
Installation Steps:

<table>
<thead>
<tr>
<th>Step</th>
<th>Instructions</th>
<th>Image(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Connect the UPS backup’s battery, plug in the UPS backup, and let it charge for 24 hours.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>If using a 2gig panel or a 4.x series module with a GE panel, attach the MMCX to SMA connector to the booster’s wire.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Attach the connector/cable to the module.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Connect the antenna to the booster and then place the antenna in its final location.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Plug the booster into the UPS backup by connecting the booster’s red wire to the positive (+) terminal on the UPS backup and connecting the booster’s white wire to negative (–) terminal on the UPS backup.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Wait until the light on the booster is solid green (approximately two minutes). Perform a GSM/CDMA Comm Test to communicate with Alarm.com and then check the system’s signal strength.</td>
<td></td>
</tr>
</tbody>
</table>

Note: This document is not intended to replace the documentation provided with the signal booster and UPS backup. Please read those documents carefully and follow all related instructions and warnings.