Dual Band 4G LTE Signal Repeater Kit

User Manual

Part#: PL-SA-LTEPCS

I. Overview

The 4G Signal repeater is an extremely efficient device which used to make up the less coverage and expand the scope of base stations, cover the blind area of mobile phone network.

Signal repeater is suitable in which the weak or blind mobile signal location, such as remote mountainous, residential area, underground shopping mall, parking lots, supermarket, hotel, elevator, home, office, industrial and mining enterprise, etc. for indoor mobile phone signal amplification.

There is a significant improvement for a drop calls caused by weak signal which blocked by mountains or buildings. Using a signal repeater is the most economic and effective way to improve the mobile phone signal and eliminate drop calls.

II. Features of Product:

1, Suitable for all kinds of small indoor weak signal or blind area.
2, Improve the coverage of receiving and transmitting cellphone signal.
3, Easy and flexible installation.
4, High anti-interference ability with advanced digital filtering technique.
5, Mini design with environmental protection.
Ⅲ. Application

Train 
Family House 
Small Department 
Boat

Underground Parking Lot 
Theater 
Elevator

Ⅳ. Diagram of Products

<table>
<thead>
<tr>
<th>Signal booster</th>
<th>power supply</th>
<th>power line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation screws for booster</td>
<td>Rubber plug</td>
<td>5 meter cable</td>
</tr>
<tr>
<td>15 meter cable</td>
<td>Ceiling Antenna</td>
<td>Outdoor Yagi Antenna</td>
</tr>
<tr>
<td>Indoor Panel antenna (Optional) Part# ANT-P702707</td>
<td>Dipole Antenna (Optional)</td>
<td></td>
</tr>
</tbody>
</table>

Ⅴ. Technical specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>Uplink:</td>
<td>Downlink:</td>
</tr>
<tr>
<td></td>
<td>746-756/1850-1910MHz</td>
<td>777-787/1930-1990MHz</td>
</tr>
</tbody>
</table>
VI. Installation Guide

1. Installation for outdoor antenna

Attention: ① In order to get a better signal, outdoor antenna should be face to the BTS or locate in a high position with better signal.
② There should be a mackintosh in the connection of outdoor antenna and cables.

2. Installation for Signal repeater
Attention: Avoid hot, direct sun, humid location for signal repeater. Do not put the product in a closed environment.

3. Installation for indoor ceiling antenna (panel antenna optional)

![Diagram of indoor ceiling antenna installation](image)

Attention: A high and central position for the coverage would be the best location for indoor antenna.

4. Installation for indoor dipole antenna (Optional)

![Diagram of indoor dipole antenna installation](image)

VII Guide for LED indicators

A. There are five indicator lights each indicates the Power, Alarm and Signal Strength as the picture shown.

B. There are three colors of the indicator lights: Yellow, green and blue. They are on behalf of three kinds of signal strength as the picture shown. If any frequency can reach these three levels, the corresponding indicator lights will always being on.
C. Power lights should always being on.(Green)

D. Either the equipment is self-excited or input signal overload, the alarm light will be flashing and the power off. The equipment will restart after 30 seconds. After 5 times restarting, the light will be on. It will restart again after 1 hour. If it is still abnormal after the above steps, the alarm indicator light will be flashing.

### VIII FAQ

<table>
<thead>
<tr>
<th>Faults</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED indicator do not light after installation</td>
<td>Check if the power supply of repeater is normal.</td>
</tr>
<tr>
<td>Power supply is normal, indicator (U) and (P) flashing or lighting constantly in the same time</td>
<td>Check all the connections, and the distance between indoor and outdoor antenna is over 10 meters.</td>
</tr>
</tbody>
</table>
| After installation, power supply is normal, but signal is also not good. | (1) checking whether all the connections installed as the installation guide  
(2) If connection are right, then make sure whether the outdoor antenna face the BTS and get a good signal. |
| After installation, the signal of cellphone is good, but can not hear each other clear or intermittent in the phone call | (1) Checking the installation of indoor antenna and connection of cables  
(2) Adjust the location of indoor antenna to make sure a better signal for mobile phone. |

### Attention

1. Keep the distance of indoor and outdoor antenna over 10 meters if there is no buildings to block the signal. Prohibit the distance between indoor and outdoor antenna within 10 meters which will cause the uncommon working condition for repeater.
2. Glass and plank are usually considered as not a blocker since the small effect to the loss of signal.
3. The standard power supply we attached is AC100V-240V;
4. Modification of power adapter and other electronic parts which would cause broken or uncommon for product are not allowed.
5. This product is for indoor use, temperature under -20--+45℃, avoid humid and water drop.