

# **POWERLINK**

## **Dual Band Signal Repeater**

**PL-SA8519 User Manual**

**Please carefully read this manual before use, thanks!**

**I. Overview of Signal Repeater**

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 are suitable for where is the weak or blind mobile signal, such as remote mountainous area, 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 intermittent call caused by weak signal which blocked by mountains or buildings.

Using a signal repeater is the most economical and effective way to solve the weak mobile phone signal or blind areas , it makes your mobile phone unimpeded.

**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 cell phone signal.
3. Easy and flexible installation.
4. High anti-interference ability with advanced digital filtering technique.
5. Compact design with environmental protection.

**III. Application**



**Train**



**Family House**



**Office**



**Boat**



**Under-ground Parking Lot**

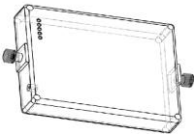
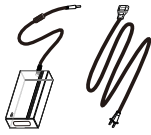
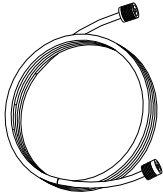



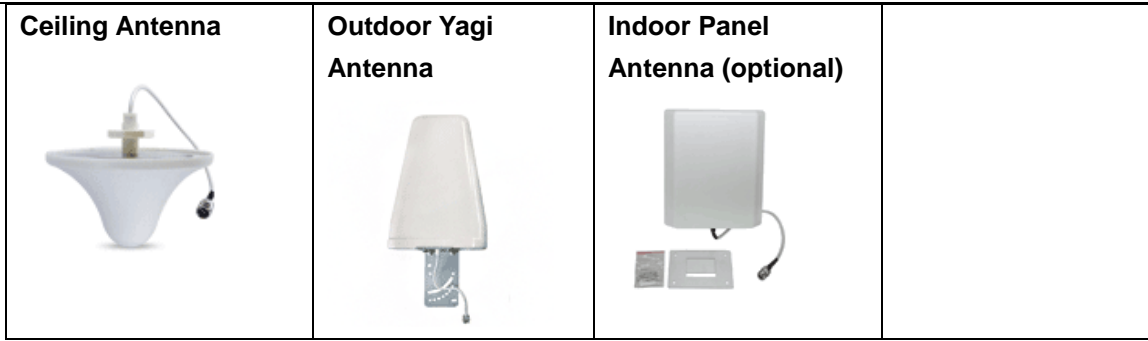
**Theater**



**Elevator**

**IV. Diagram of Products**

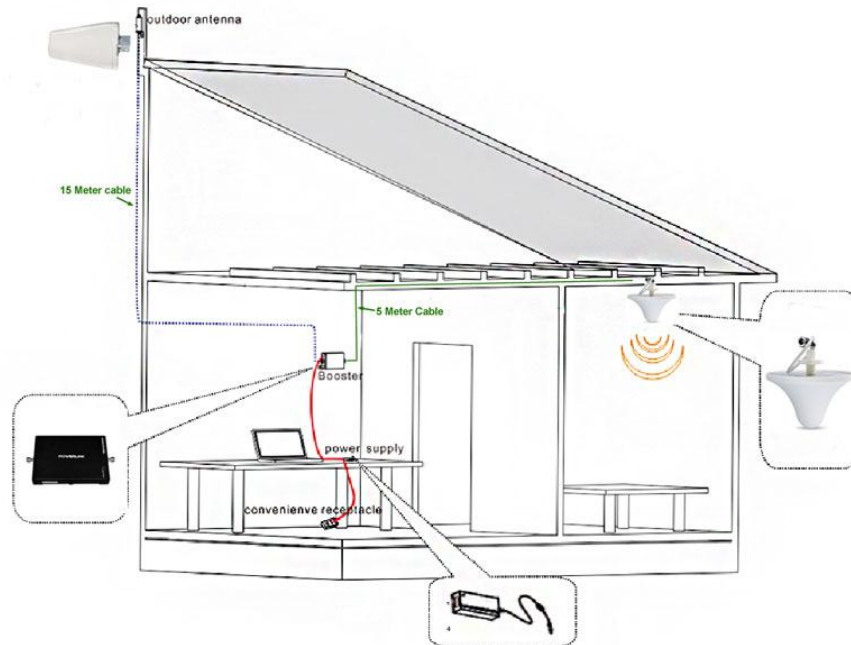
<p><b>Signal booster</b></p> 	<p><b>Power supply</b></p> 	<p><b>5 Meter cable</b></p> 	<p><b>15 Meter cable</b></p> 
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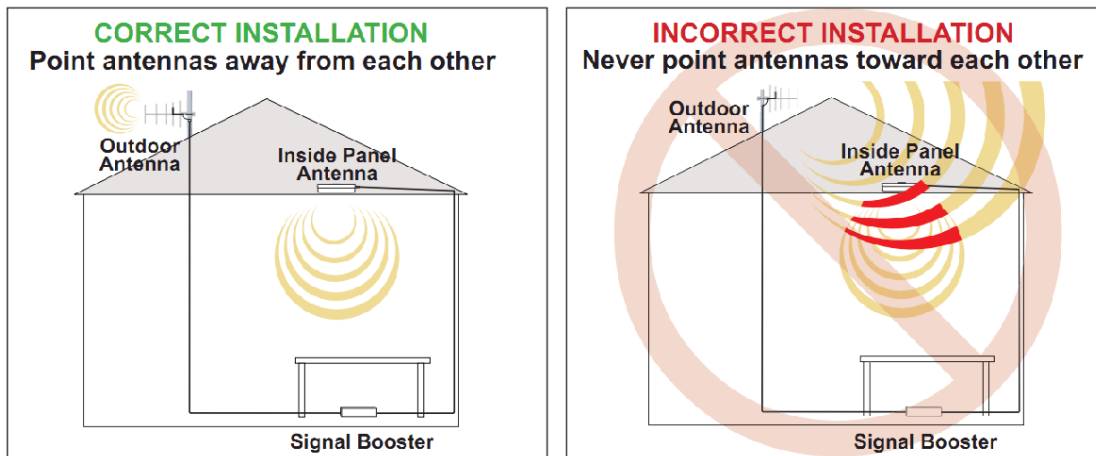


**V. Technical specification**

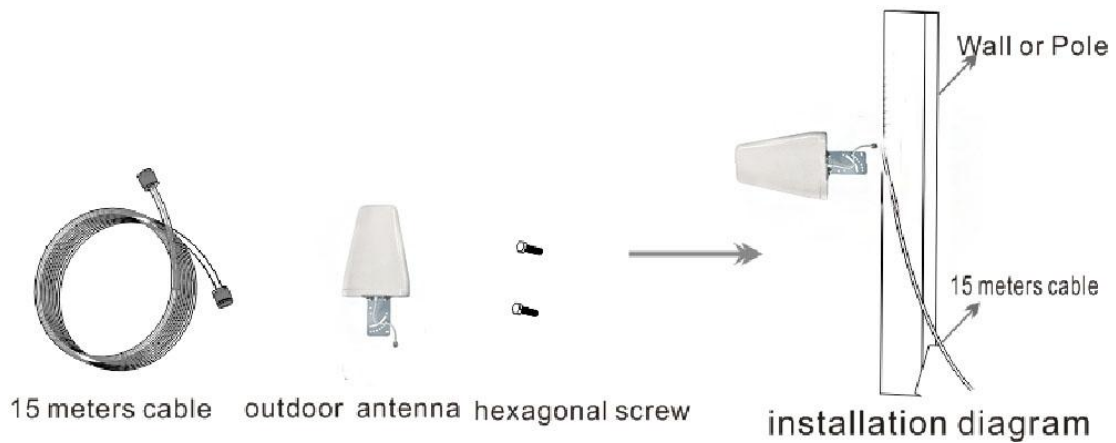
	Specification	
Frequency	Uplink:	Downlink:
	824~849/1850-1910MHz	869~894/1930-1990MHz
Input power range	-60 ~ -30dBm	
Max output power	10dBm	20dBm
Gain	60dBm	65dBm
Impedance	50Ω	
Power supply	AC110/220—DC+5V	
Installation position	Indoor	

**VI. Installation Guide**



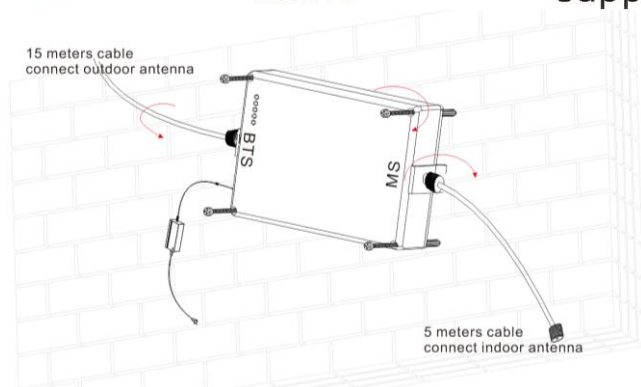
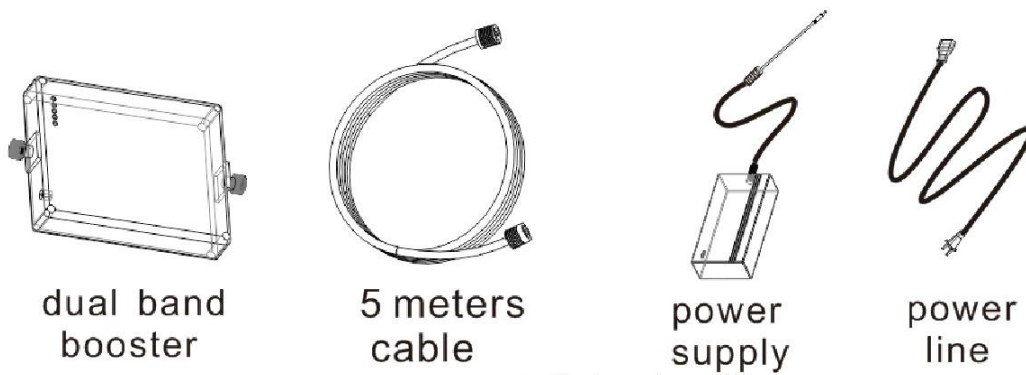


**1, Installation for outdoor antenna**



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

**2, Installation for Signal repeater**



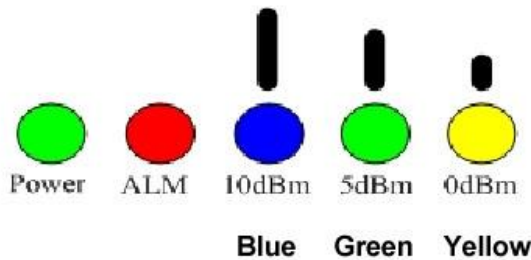
**Attention :** Avoid hot, direct sun, humid location for signal repeater. Put the product in a room temperature environment

**3, Installation for indoor ceiling antenna**



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

**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 light will be flashing.

**VIII. FAQ**

Faults	Solutions
LED indicator do not light up after installation	Check if the power supply of repeater is normal .
Power supply is normal , indicator (U) and (P) flashing or lighting constantly in the	Check all the connections, and the distance between indoor and outdoor antenna is over 10 meters.

same time	
After installation, power supply is normal, but signal is not good.	(1) checking whether all the connections installed as the installation guide (2) If connection are right, adjust the direction of the yagi antenna to the cell tower
After installation, the signal of cellphone is good, but can not hear each other clear or drop 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 (30ft) if there is no buildings to block the signal. Prohibit the distance between indoor and outdoor antenna within 10 meters (30ft) 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°C ,avoid humid and water drop.

Question? Please contact [tech-support@premieretek.net](mailto:tech-support@premieretek.net)