

**Skyworks PA**  
**Green product with low loss**

“Original Manufacture , Good quality”



**Indoor Signal Amplifier**



**Outdoor Antenna**



**Power Adapter**

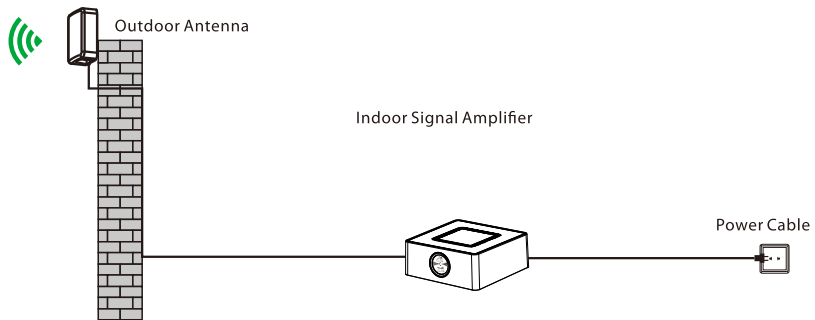
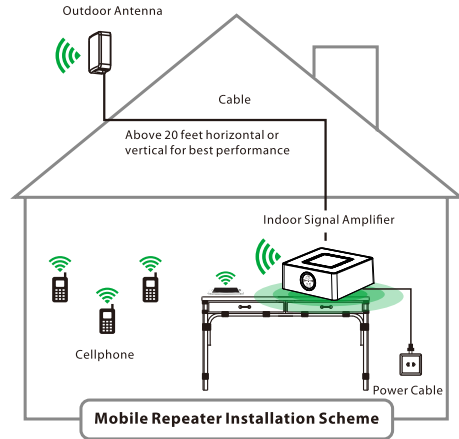
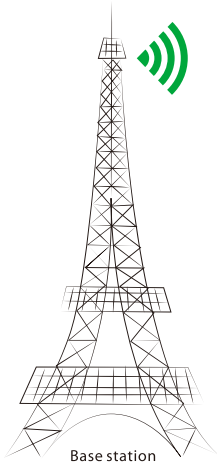


**Cable**

Model Number	Network standard	Uplink	Downlink
LB-3-8L	GSM+DCS	890~915MHz / 1710~1785MHz	935~960MHz / 1805~1880MHz
LB-3-5L	CDMA+DCS	824~849MHz / 1710~1785MHz	869~894MHz / 1805~1880MHz
LB-2-5L	CDMA+PCS	824~849MHz / 1850~1910MHz	869~894MHz / 1930~1990MHz
LB-1-3L	WCDMA+DCS	1920~1980MHz / 1710~1785MHz	2110~2170MHz / 1805~1880MHz
LB-1-5L	CDMA+WCDMA	824~849MHz / 1920~1980MHz	869~894MHz / 2110~2170MHz
LB-5-8L	CDMA+GSM	825~835MHz / 890~915MHz	870~880MHz / 935~960MHz

## Product features

- ◆ Small size, easy installation
- ◆ Higher uplink / downlink isolation
- ◆ Faster data downloads
- ◆ Reasonable heat dissipation
- ◆ Receiving amplifier tube with the ultra low noise
- ◆ Automatic level control technology
- ◆ Improved indoor cellular voice and data signal
- ◆ Up to 2 hours additional talk time in weak-signal areas



## Installation Steps

1. Install the outdoor antenna and ensure that the position can receive a better signal.
2. Use the outdoor antenna to connect the indoor host computer through coaxial line.
3. Adjust the indoor host's position and ensure that the distance between the indoor host and the outdoor antenna is more than 5m.
4. Connect the power adapter to the 220V mains, then connect it to the indoor host computer through USB cable.
5. Reboot the telephone to check whether the signal situation becomes good or not. If not, please adjust the position of the outdoor antenna.
6. Try to make call to see whether the communication signal by phone is clear and fluent or not. Adjust the indoor and outdoor antenna position depending on the circumstances.

## Installation Notes

- When installing the outdoor antenna, its position should be able to receive a good signal.
- The re-transmission signal of indoor amplifier can't be received by outdoor antenna. Ensure that the distance between the indoor host computer and the outdoor antenna greater than 5m.
- Indoor amplifier is for indoor use only. Please avoid moisture and water.

## Warning:

- Please read the installation instructions and precautions before installation. Misuse can result in equipment damage.
- All device interfaces are charged. Don't touch water!
- Outdoor antenna is our special product. Never attempt to add another antenna.
- Reconstruction or connection to other brands of the power adapter without permission is prohibited!

Technical Parameters		
Items	Uplink	Downlink
Max. Gain	> 55 dB	> 55dB
Automatic Gain Control	> 20dB	
Bandwidth	Wide Band	
Ripple in Band	CDMA, GSM $\leq$ 8dB ; DCS $\leq$ 10dB	
Max. Input Power Without Damage	-10 dBm	
Output Power	10 ~ 15 dBm	10 ~ 15 dBm
Intermodulation Products	9KHz~1GHz	$\leq$ -36 dBm
	1GHz~12.75GHz	$\leq$ -30 dBm
Spurious Emission	9KHz~1GHz	$\leq$ -36 dBm
	1GHz~12.75GHz	$\leq$ -30 dBm
Spurious Emission Mask	Complies with 3GPP	
Modulation Accuracy	Complies with 3GPP	
Peak Code Domain Error	Complies with 3GPP	
Noise Figure @ max. gain	$\leq$ 8 dB (Typical)	
Return loss	$\leq$ -10 dB	
Time Delay	$\leq$ 0.5 $\mu$ s	
MTBF	> 50000 hours	
Power Supply	AC : 110-240V, 50/60Hz; DC : 5V 2A	
Power Consumption	< 10W	
Impedance	50 ohm	

Specifications	
RF Connector	SMA
Dimensions (D x W x H)	$\Phi$ 200xH150 (mm)
Weight	1.3Kg
Installation Type	Desktop Installation
Environment Conditions	IP40
Humidity	< 90%
Operating Temperature	-10°C ~ 55°C

## Lanbowan Technology Ltd.

Bldg. #3, NO.60 LangBao Xi Road, ChanCheng, Foshan, China  
 Tel: 0757-8225 3850 Fax: 0757-8225 9873 <http://www.lanbowan.com>