<<< User Manual

Cell Phone Signal Booster

Product parameters

model

GB.3.CPA.4

Network

CDMA、LTE-B25、LTE-B4

parameter

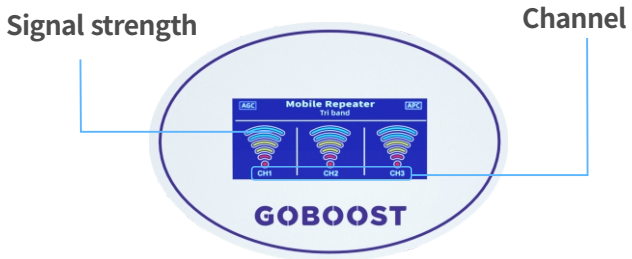
		Uplink	Downlink
Frequency Range	Frequency	Uplink	Downlink
	CDMA	824~849	869~894
	LTE-B25	1850~1915	1930~1995
	LTE-B4	1710~17555	2110~2155
Output Power		20±2 dBm, 15±2dBm	10±2 dBm
Gain		53±5 dB,60±5 dB	59±3 dB, 66±3 dB

Ripple in Band		CDMA≤6dB;LTE-B25≤6dB;LTE-B4≤6dB;
Spurious Emission	9KHz~1GHz	≤ -36 dBm
	1GHz~12.75GHz	≤ -30 dBm
Intermodulation Products	9KHz~1GHz	≤ -36 dBm
	1GHz~12.75GHz	≤ -30 dBm
VSWR		≤3
MTBF		> 50000 hours
Power Supply		AC：100~240V, 50/ 60Hz；DC：5V 3A
Power Comsumption		< 5.5W
Impedance		50 ohm

Mechanical Specification

RF Connector	N-Female
Dimensions (D*W*H)	234*182*22mm
Packing size (D*W*H)	310*210*55mm
Net weight	<0.99KG
Gross weight	<1.26KG
Installation Type	Wall Installation
Environment Conditions	IP40
Humidity	< 90%
Operating Temperature	-10℃ ~ 55℃

Product display



Installation steps

Step 1: Install the outdoor antenna on the roof or other positions where you can receive 4 bars of signal or more

Step 2: Connect the outdoor antenna to the BTS port via the cable and tighten the connectors at both ends, make the outdoor antenna point to the base station

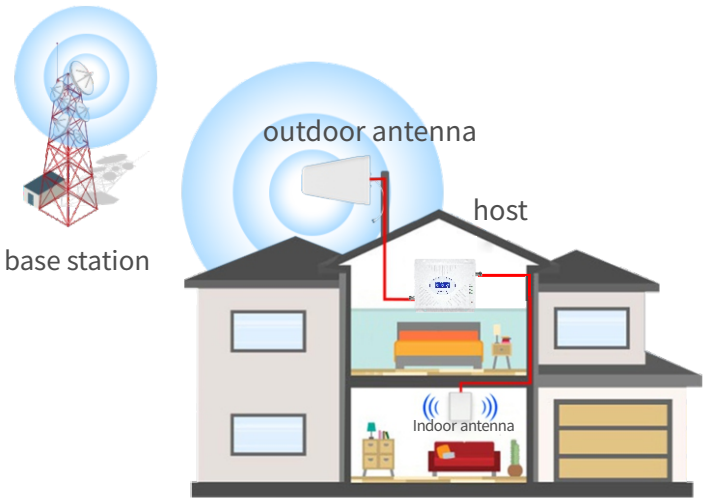
Step 3: Connect the indoor antenna to the MS port, and place the indoor antenna at a higher position so as to increase signal coverage

Step 4: After connecting and tightening the two antennas, plug in the power supply and check the condition of the signal display light

Step 5: Check whether the phone signal has been improved or not. If it is not ideal, you can adjust the height or direction of the outdoor antenna. A good outdoor signal is half of the success.

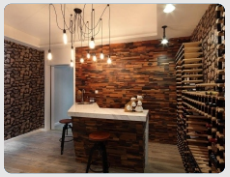
Attention: There must be a solid wall between the indoor antenna and the outdoor antenna to prevent self-oscillation.

installation drawing



Application Scenario

villa



basement

residence

hotel

Office building

Bar KTV

frequently asked question

FAQ	Solutions
After the installation, the signal improvement is not significant, and the indoor coverage area is small	1. Adjust the position and direction of the outdoor antenna 2. Check if the cable is properly connected 3. Raise the outdoor antenna so that it can receive better signals 4. Replace high-power amplifier 5. Replace a high gain outdoor antenna
The phone signal is full, but the call quality is poor	The distance between outdoor and indoor antennas are too close, so it is necessary to increase the distance between them, or increase barrier isolation between them
After installation, the signal did not improve, but it was worse	The distance between outdoor and indoor antennas are too close, so it is necessary to increase the distance between them, or increase barrier isolation between them
I have been using it normally before, but suddenly the signal is not good after using it for a period of time	1. Check if water ingress at outdoor cable joints 2. Check if the power indicator light is normal 3. If there is no water ingress into the cable and the power indicator light is normal, it is possible that the amplifier has malfunctioned and needs to be returned to the factory for repair

FCC Statement

- This equipment should be installed and operated with a minumum distance of 20 cm between the radiator and your body.

This is a CONSUMER device.

BEFORE USE, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed at least 20 cm (8 inches) from any person.

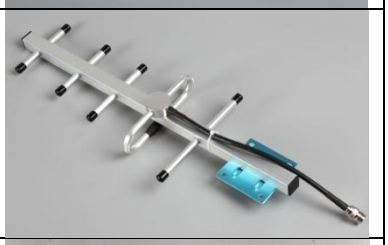
You **MUST** cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

This device may be operated ONLY in a fixed location for in-building use.

(1) Usage of unauthorized antennas, cables, and/or coupling devices may result in poor effect and, in severe cases, equipment damage.

(2) a complete list of authorized antennas, cables, and/or coupling devices:

Name		Model	Gain/Loss	Photo
Indoor Antenna	Panel Antenna (default)	IBG-8NK-80/250	5dbi @824-894MHz 5dbi @1850-1990MHz 5dbi @1710-2155MHz	
	Ceiling Antenna	IXD-3NK-80/250	3.5dbi @824-894MHz 3.5dbi @1850-1990MHz 5dbi @1710-2155MHz	
Outdoor Antenna	Log-periodic Antenna (default)	ODS-10NK-80/250	5dbi @824-894MHz 5dbi @1850-1990MHz 5dbi @1710-2155MHz	
	Yagi Antenna	OBM-5NK-82/96	3dbi @824-894MHz 3dbi @1850-1990MHz 5dbi @1710-2155MHz	
cable	Coaxial cable with N male cennector (default)	PTE-3D-FB-5NB	3dbi @824-894MHz 3dbi @1850-1990MHz 5dbi @1710-2155MHz	

(3)the default antenna, cable, and/or coupling device that are shipped with the booster
Log-periodic Antenna, Panel Antenna and CoaxialCable.

(4) The antenna is equipped with a U-shaped mounting bracket. The log-periodic antenna should be installed in a place with good outdoor signal. The panel antenna should be installed indoors and near the main device. If the amplification effect is not good after the installation is completed, the direction of the log-periodic antenna can be gradually adjusted to achieve better effect.

(5) The device has automatic sleep function, strong anti-interference ability, over-power protection function, good heat dissipation design, and no radiation. The working noise is as low as 6DB.

CPC-2-1-05 — Zone Enhancers - Spectrum management and telecommunications http://
www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html
Warning:Unauthorized antennas/cables and/or coupling devices are prohibited by FCC rules. Please contact FCC for details: 1-888-CALL-FCC

EN) This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this
device must accept any interference, including interference that may cause undesired operation of the device.
(FR) Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils

radio dispense de permis. L'exploitation est autorisée aux deux conditions suivantes : (1)
I'appareil ne doit pas produire de brouillage, et (2) I'utilisateur de I'appareil doit accepter tout
brouillge radioelectrique subi, meme si le brouillge est susceptible d'en compromettre le
fonctionnement.

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