33dBm Dual Band 1900/2600mhz signal repeaters

A cell phone signal booster (also known as cellular repeater or amplifier) is a device that boosts cell phone signals to and from your mobile phone whether at home or office or in any vehicle.
It does this by taking the existing cellular signal, amplifying it, and then broadcasting to an area in need of better reception.
If you're experiencing dropped calls, slow or lost internet connection, stuck text messages, poor voice quality, weak coverage, low bars, and other cell phone reception problems, a cell phone signal booster is the best solution that produces definite results.

We provides signal boosters kits for any Homes, Offices, Cars, RV's, Boats and more. All amplifier kits come with Indoor and Outdoor Antennas, Cables, Power adapters and more.

33dBm Dual band signal repeaters Features:

1. With unique appearance design, have good cooling function

2. With LCD display , we can know the unit gain and output power clearly

3. With DL signal LED display, help to install the outdoor antenna at the best state;

4.With AGC and ALC, make repeater work stable .

5.PCB with isolation function ,make UL and DL signal not influence each other,

6.Low intermodulation, high Gain ,stable Output power

Dual band repeater is to support any two mobile band existing in the world to help end users to improve mobile signals for much better phone call quality and smoother data transmission. It is designed to support coverage area max can up to 2000 square meters with proper engineering. Below are the main features.

1. The consumer repeater is an ideal solution for providing a cost effective improvement in cellular in-building coverage of a home, office, restaurant or building, in the quickest time possible.

2. Manual gain control (MGC) available for both uplink and downlink to adjust the gain value for proper coverage during installation or maintenance.

3. To maintain safe and specific output signal levels and give alarms on self-oscillation, the repeater has built-in AGC and ALC circuits, which can automatically control the gain of the repeater depending upon the strength of input signals.

4. Auto shut off function available for both uplink and downlink to avoid deep self-oscilation from jamming the towers, saving your trouble from operators.

5.Wide band feature enables all devices operating within the wide frequency range of the repeater to see an improvement in performance.

6.Multiple phones and other handheld devices throughout a building can benefit from a wireless repeater.

7.Supports up to (500) users / calls simultaneously.

8.Extended phone battery life. (Your phone does not need to put out as much power due to improved reception.)

Specification of 33dBm Dual band signal repeater:

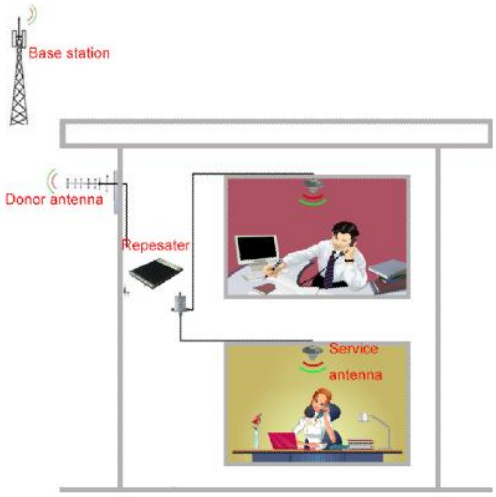
Electrical specification		Uplink	Downlink
Frequency Range	4G	2500 ~ 2570 MHz	2620 ~ 2690 MHz
	PCS 1900mhz	1850-1910MHz	1930-1990MHz
Max .Gain		≥ 80dB	≥ 82dB

Max .Output Power		≥ 30dBm	≥ 33dBm
MGC (Step Attenuation)		≥ 31dB / 1dB step	
Automatic Level Control		≥ 20dB	
Gain Flatness	GSM & CDMA	Tpy≤ 6dB(P-P); DCS,PCS ≤ 8dB(P-P)	
	WCDMA	≤ 2dB/ 3.84MHz,Full Band ≤ 5dB(P-P)	
Noise Figure		≤ 5dB	
VSWR		≤ 2.0	
Group Delay		≤ 1.5μs	
Frequency stability		≤ 0.01ppm	
Spurious Emission & Output inter-modulation		GSM Meet ETSI TS 151 026 V 6.1.0	
		WCDMA Meet 3GPP TS 25.143 (V 6.2.0)	
		CDMA Meet IS95 & CDMA2000	
WCDMA System	Spurious Emission Mask	Meet 3GPP TS 25.143 (V 6.2.0)	
	Modulation Accuracy	≤ 12.5%	
	Peak Code Domain Error	≤ -35dB@Spreading Factor 256	
CDMA System	Rho	ρ > 0.980	
	ACPR	Meet IS95 & CDMA2000	
Mechanical Specifications		**Standard**	
I /O Port		N-Female	
Impedance		50 ohm	
Operating Temperature		-25ºC~+55ºC	
Environment Conditions		IP40	
Dimensions		650*250*53mm	
Weight		≤ 6.50Kg	
Power Supply		Input AC100~240V,output DC9V / 3A	
LED Alarm		**Standard**	
Power LED		Power Indicator	

UL LED	Be lighted when there is phone calling
DL 1	Be lighted when Outdoor signal is -65dB
DL 2	Be lighted when Outdoor signal only -55dB
DL 3	Be lighted when Outdoor signal only -50dB

The installtion of the Repeater

Outdoor antenna (for receiving the signal from the BTS) + Cable (transfering the received signal) + Repeater (for amplifying the received signal) + cable(for transfering the amplified signal) + indoor antenna(for shooting the amplified signal),



(Note : Omni indoor antenna is 3dBi,it can work with about 200m2 . If need repeater coverage larger area , need add more antenna,the HPC-DW4G-27 Max can work with 10pcs indoor antenna. (when add antenna ,please remember to take splitters)

Installation steps
Step 1 Start by taking your phone up to the roof or other location outside to find where the signal is strongest.

Step 2 Temporarily mount the Outdoor (outside) antenna in that location. You may need to adjust and move the antenna later.

Step 3 Run coaxial cable into the building to a convenient loaction (attic, etc.) where you can also get standard power for the Signal Repeater.

Step 4 Place the Signal Repeater in that location and connect the coaxial cable to the Outdoor Side of the Signal Repeater and the Outdoor antenna.

Step 5 Mount your Indoor (inside) antenna in a productive location. You may need to adjust or move the antenna later. More notes on Indoor antennas and patterns here.

Step 6 Connect coaxial cable between the Indoor antenna and the Signal Repeater output port.

Step 7 Power up the system and check for signal inside the building. If needed, tune system by moving and or pointing the Outdoor and Indoor antennas until they get the most signal possible.

Step 8 Secure all antennas and cables, securely mount the Signal repeater and clean up the installation.

Of course there are still a few more things to consider but in general, this is the basic procedure. For more information, please contact us.

Remark: 1. Keep 5db difference between Uplink and Downlink.

See the photo 77-82db.

2. Adjust the signal one by one until the lights turn green.


DC IN
MS
BTS
4040


DC IN
MS
BTS


BTS