

WCDMA ICS RF REPEATER ICS-HB-10



(Positive schematic)



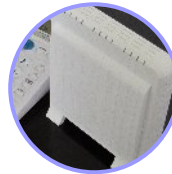
(Bottom schematic)

Gain:70-90dB

LED Instruction

- RSSI: Downlink output signal intensity
- A G C: Automatic gain control alarm
- I S O: It alarms when isolation is not enough , when isolation is not enough seriously it exceeds specifications
- P W R: Light on means repeater at work
- SLEEP: Turn off the uplink output when there is no uplink input signal
- Output power: Uplink output signal intensity

Operating Process



Step 1

Select the place where has signal inside



Step 2

Plug in the Power and turn on repeater



Step 3

Enjoy your calling

Bottom Instruction

- BS: connect with donor antenna
- POWER: plug in the original power adapter
- USB: computer control connector
- MS: Connect with service antenna

Product Feature

- Plug and play. Detect the quality of sourcing signal automatically after power on.
- With built-in donor antenna and service antenna (Gain: 5dBi) (DCS/LTE system antenna is apolegamy)
- Unnecessary to pull out the build-in antenna, connect the outside antenna directly. The equipment can switch automatically.
- channel selection trace
- support uplink low input power, turn off uplink output function.
- 30dB adaptive ICS
- 90dB max gain (using external donor antenna) with Amplitec detect ALC channel-Based's channel power/ gain configuration and control

- Firstly confirm the PWR's LED light is on after power on.
- the LED face to the area going to cover
- Repeater can detect the received signal intensity of the location, according to RSSI LED's pilot lamp(four lights are on means the best signal intensity),adjust the repeater's position until it gets the best signal intensity.

WCDMA Specification

System		UMTS
frequency	Uplink(MHZ)	1920-1980
	Downlink(MHZ)	2110-2170
UL/DL Total Output Power		UL \geq +13dBm/Output Power: DL \geq +13dBm,Independently Settable Per Channel
Supported Number of Channels	Uplink	1,2,or 3 Carriers in 20MHz,Automatica/Manual Channel Selective
	Downlink	1,2,or 3 Carriers in 20MHz,Automatica/Manual Channel Selective
Max. Gain	Use external antenna	75dB, Independently Settable Per Channel
	Use build-in donor antenna	70dB, Independently Settable Per Channel
AGC Control Range		30dB,Independently Working Per Channel
Out of Band Gain		3GPP TS 25.106
Gain Flatness		\leq 3dB(Peak-to-Peak)
EVM		\leq 10%(PCDE \leq -35dB)
Interference Cancellation		\geq 30dB
Spurious Emissions		3GPP TS 25.106
Input/Output Intermodulation		3GPP TS 25.106
Adjacent Channel Rejection Ratio		3GPP TS 25.106
Group Delay		\leq 8 μ s
Noise Figure		\leq 6dB(@Max.Gain)
Operating Temperature Range		-30 $^{\circ}$ C~+55 $^{\circ}$ C
Relative Humidity		95%
Power Supply		90~240 AC V,50/60Hz
Power Consumption		\leq 12W
Standard Compliance		3GPP TS 25.143、EN 60950、ETSI EN 301 489-1、ETSI EN 301 908-11
VSWR		\leq 1.5
RF Connector		SMA Female(Switch) for External Antenna Extension
PC Control Interface		USB
LED		Input RSSI,AGC Alarm,Isolation Alarm,Power On,Sleep,Output Power
Dimension		190mm*160*60mm
Weight		<1.2kg