

10 ~ 17dBm Band Selective Repeater With Built-in Antenna



Product Feature

- * Light weight, Compact Size and high Performance.
- * Provide quickest solution for indoor signal weak or block zones .
- * High linear design, Low interference to BTS.
- * Intelligent design, with built-in ALC function, ATT manually attenuation control (1db/step) function.
- * Coverage area up to 300-2000 m² without block or obstruct.
- * With the used of IF saw filter to make it good out-of-band rejection.

Repeater series

Output power for 10、 15、 17dBm, 1 or 2-sub band in any one of GSM,CDMA,DCS,PCS,WCDMA System.

Repeater models: W10A-GSM,W15A-GSM,W17A-GSM,W17A-2G, etc.

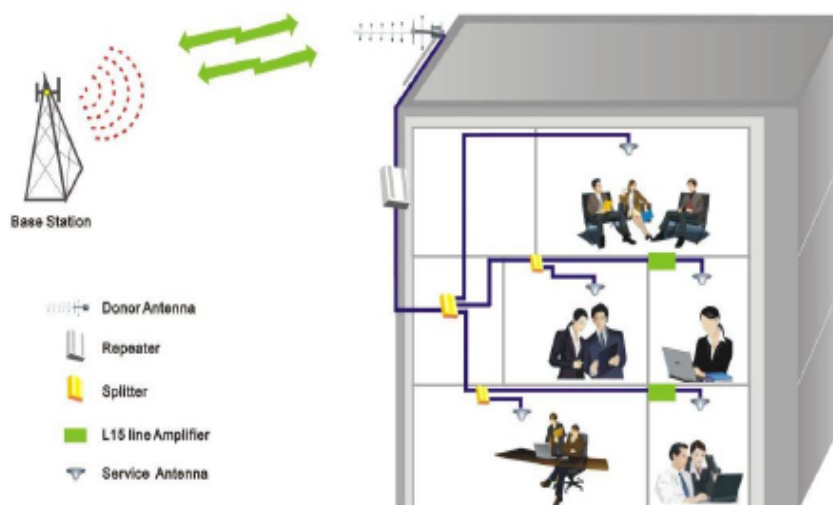
Standard Package

- 1) DC9V/5A poer supply 1PCS
- 2) AC power cord (EU standard/ US standard/UK standard/ SA standard/China standard, etc) 1PCS
- 3) Installation kit 1PCS
- 4) User manual 1PCS

Recommended Accessories

- 1) Donor antenna: Log Periodic Dipole Aantenna (8.2dBi@806-960MHz, 9.5dBi@1710-2500MHz)
- 2) 1/2"RF cable with connector (Cable length to optional)

Application



Electrical Specification

Items		Uplink	Downlink
Frequency Range	CDMA800 & GSM850	824 ~ 849 MHz	869 ~ 894 MHz
	GSM900	890 ~ 915 MHz	935 ~ 960 MHz
	DCS	1710 ~ 1785 MHz	1805 ~ 1880 MHz
	PCS	1850 ~ 1910 MHz	1930 ~ 1990 MHz
	WCDMA	1920 ~ 1980 MHz	2110 ~ 2170 MHz
Max. Gain		60 ~ 70 dB	60 ~ 70 dB
Bandwidth		available upon repust (1-2 selectable bands)	
Manual Gain Control		31dB in step of 1dB	
Automatic Gain Control		> 20dB	
Ripple in Band		≤3dB(Typical)	
Out of Band Gain		± 400 KHz ≅ 50 dB	
		± 600 KHz ≅ 40 dB	
		± 1 MHz ≅ 35 dB	
		± 5 MHz ≅ 25 dB	
Max. Input Power Without Damage		0 dBm	
Output Power		10 ~ 15 dBm	10 ~ 17 dBm
Intermodulation Products	9KHz~1GHz	≤ -36 dBm	≤ -36 dBm
	1GHz~12.75GHz	≤ -30 dBm	≤ -30 dBm
Spurious Emission	9KHz~1GHz	≤ -36 dBm	≤ -36 dBm
	1GHz~12.75GHz	≤ -30 dBm	≤ -30 dBm
Spurious Emission Mask(WCDMA)		Complies with 3GPP TS 25.106	
Modulation Accuracy(WCDMA)		Complies with 3GPP TS 25.106	
Peak Code Domain Error(WCDMA)		Complies with 3GPP TS 25.106	
ACRR(WCDMA)		≥ 30dB @±5MHz & ±10MHz	
Frequency Stability		≤0.01 ppm	
Noise Figure @ max. gain		≤6 dB(Typical)	
Return loss		≅ -10 dB	
Time Delay		≤4.5 μs	
MTBF		>50000 hours	
Power Supply		AC: 90~265V, 50/ 60Hz; DC: 9V 5A	
Power Consumption		< 25W	
Impedance		50 ohm	
Input Signal Level	Normal	At the edge of green and orange (-50dBm or more)	
	Low	Green	
	High	>1-5dB range: Orange; >20dB: Red	

Mechanical Specification

RF Connector	N-Female
Switch	Power Switch、 Manual Gain Control Switch
Cooling	Heatsink Convection cooling
Dimensions (D x W xH)	250*160*53 (mm)
Weight	< 2.5 Kg
Installation Type	Wall Installation
Environment Conditions	IP40
Humidity	< 90%
Operating Temperature	-10℃~55℃