

# 23dBm 850 & 1900MHz Dual Wide Band Repeater with LCD

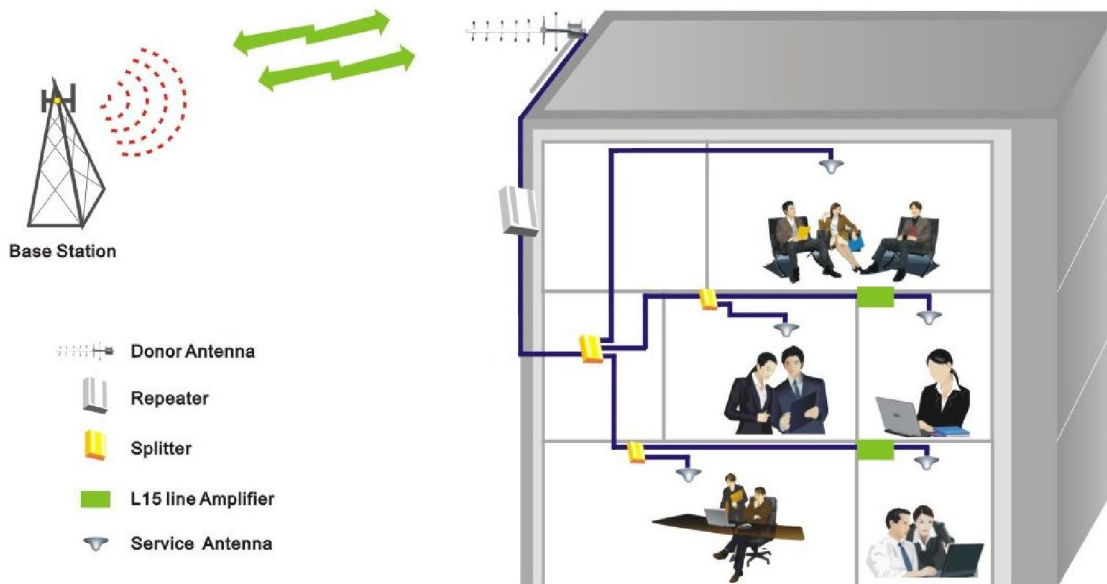


## Feature

- ◆ Boosting cellphone signal in multi-level buildings (2500-6000 square meters)
- ◆ Reducing dropped calls with low interference to base station
- ◆ Conserving cellphone battery life
- ◆ Low signal distortion using high linear design
- ◆ Low power consumption
- ◆ Stable coverage & transmit power with Automatic Level Control (ALC)
- ◆ Manual Gain Control (MGC) to adjust coverage area freely
- ◆ Auto shut off of Uplink. When there is no one making calls then the Uplink will be dormant,
- ◆ Auto protection function. When the self-excitation occurs, it will auto shut down.
- ◆ LCD design to show Working frequency, gain, output power, signal intensity etc.
- ◆ Suitable for 850MHz(GSM/UTMS) & 1900MHz(GSM) mobile networks.
- ◆ CE Approved



## Diagram



Items		Uplink	Downlink
Frequency Range	CDMA	824 ~ 849MHz	869 ~ 894 MHz
	PCS	1850~ 1910 MHz	1930~ 1990 MHz
Output Power	CDMA	23±2 dBm	23±2 dBm
	PCS	23±2 dBm	23±2 dBm
Gain	CDMA	73±2 dB	73±2 dB
	PCS	73±2 dB	73±2 dB
Ripple	CDMA	≤8 dB	≤8 dB
	PCS	≤10 dB	≤10 dB
Noise Figure @ max. gain	CDMA	≤8 dB	≤8 dB
	PCS	≤8 dB	≤8 dB
ATT (CDMA) step of 1 dB	1~10 dB	Δ   ≤1 dB	Δ   ≤1 dB
	10~20 dB	Δ   ≤1 dB	Δ   ≤1 dB
	20~25 dB	Δ   ≤1.5 dB	Δ   ≤1.5 dB
ATT (PCS) step of 1 dB	1~10 dB	Δ   ≤1 dB	Δ   ≤1 dB
	10~20 dB	Δ   ≤1 dB	Δ   ≤1 dB
	20~25 dB	Δ   ≤1.5 dB	Δ   ≤1.5 dB
ALC Active 10dB	CDMA	Δ   ≤2 dB	Δ   ≤2 dB
	PCS	Δ   ≤2 dB	Δ   ≤2 dB
VSWR	CDMA	≤2	≤2
	PCS	≤2	≤2
Intermodulation Products	CDMA CW)	≤-40 dBc	≤-40 dBc
	PCS(CW)	≤-40 dBc	≤-40 dBc
Spurious Emission	9KHz~1GHz	≤-36 dBm	≤-36 dBm
	1GHz~12.75GHz	≤-30 dBm	≤-30 dBm
Time Delay		≤0.5 μs	≤0.5 μs
Power Supply		DC: 12V/2A	
Power Consumption		< 20W	
RF Connector		N-Female	
Environment Conditions		IP40	
Humidity		< 90%	
Operating Temperature		-10°C ~ +55°C	