



# Dual Band Repeater Amplifier

**3 Watt Verion**

**Model: 18-850**

**Shireen's Dual band Cellular Repeater/Amplifier** increases signal strength and improves cellular communication without a physical connection to the cell phone. The amplifier has a signal gain of **50dB**. It also boosts the performance and range of cell phones up to 50 miles. It can also be employed in large yachts, homes and offices.

The Dual band Cellular Repeater/Amplifier works in the following manner: An outside antenna (placed outside the premises) receives the signal from the base station, the Cell Amplifier unit amplifies the signal and repeats it to the cell phones through the inside antenna (placed indoors). We get the freedom to walk around while talking on your phone. This technology allows clean and clear wireless functioning of multiple cell phones operating on 800 and 1900MHz bands simultaneously

## Specifications

### Electrical Specifications:

- Frequency : Uplink: 824-849 MHz \* and 1850-1910 MHz  
Downlink: 869-**894** MHz and 1930-1990 MHz
- Technology : AMPS/TDMA/PCS/CDMA/GSM850/GSM1900/GPRS
- Max Output Power : 3W, 35 dBm (824-849 MHz), 2W, 33 dBm (1850-1910 MHz)
- Dynamic Variable Gain : **50dB Max**
- Impedance : 50 ohms
- Power Consumption : Standby 5 vdc/**0.75A**, Uplink 5 vdc/2.0A

\* Shireen's Dual band cellular repeater/amplifier can also be designed to work for : uplink 890-915 MHz and downlink 935-960 MHz.

### General Specifications:

- Power Supply : 5 VDC, **3.7A**
- RF Connections : Outside Antenna Port: Mini-UHF Female **or Type-N**  
Inside Antenna Port: Mini-UHF Female **or Type-N**
- Indicator : **LEDs** indicating power on, **activity, and fault conditions**
- Power Switch : SPDT : On/Off

**Note:** The area covered depends upon the outside signal strength. The Shireen Dual band Cellular Repeater/Amplifier is designed considering -70dB as the available signal strength. As outside signal strength decreases, coverage area decreases. For poor outside signal areas or for increased interior coverage, use a directional antenna.



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