



## Quad Band 850+900+1800+2100MHz RF Repeater



### OVERVIEW

ATNJ RF repeater with industrial design, combines multi mobile network signals together and improves the mobile voice and data communication, aiming to provide a more cost-effective solution for signal. ATNJ RF repeater is easy to install and maintain, which could help signal providers get fast solution.

A repeater is working as a relay between the BTS and mobiles. It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal and then re-transmits it via the Indoor Signal Distribution System to the weak/blind coverage area. And the mobile signal is also amplified and re-transmitted to the BTS via the opposite direction.

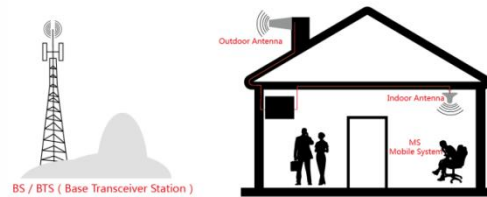
### FEATURES

- Improve any two mobile networks at the same time
- LCD display the input/output signal strength
- Auto isolation detect function
- Auto gain control
- Auto level control
- Auto uplink noise reduction, avoid disturbing to BTS
- Smart LCD to guide the installation

### WHERE TO USE

- Indoor: Hotels, Exhibition Centers, Basement, Parking Lots, Shopping Malls, Apartments..
- Outdoor: Airport, Tunnel, Village, Mining Area, Court, Tourism Area..

## APPLICATION SCENE



## Technical Specification

SPECIFICATIONS		PARAMETERS	
Frequency Range		CDMA 850MHz	825-835MHz/870-880MHz
		GSM 900MHz	890-915MHz/935-960MHz
		DCS/LTE1800MHz	1710-1785MHz/1805-1880MHz
		WCDMA 2100MHz	1920-1980MHz/2110-2170MHz
Band Width		10MHz&25MHz&75MHz&60MHz	
Gain		$65 \pm 3\text{dB}$	
Automatic Gain Control		31dB	
MGC (Step Attenuation)		31dB@ 1dB/Step	
Output Power		$17 \pm 2\text{dBm}$	
Spurious Emission	9 kHz -150 kHz/1kHz	$\leq -36\text{dBm}$	
	150kHz-30MHz/10kHz	$\leq -36\text{dBm}$	
	30 MHz-1GHz/100kHz	$\leq -36\text{dBm}$	
	1GHz-12.75GHz/1MHz	$\leq -30\text{dBm}$	
ACPR		Uplink Fully comply with 3GPP 36.106	
		Downlink Fully comply with 3GPP 36.106	
Unwanted emissions		Fully comply with 3GPP 36.106	
VSWR		$\leq 2$	
Ripple		$\leq 6\text{dB}$	
Noise Figure		$\leq 7\text{dB}$	
Delay		$\leq 1 \mu\text{s}$	
I/O Impedance		50Q	
RF Connector(Customers to Choose)		SMA-Type (Female)	
Operating Temperature		$-25^{\circ} \sim +55^{\circ}$	
Power Supply		DC 5V	
Power consumption		$\leq 75\text{W}$	
Environment Conditions		IP43	
Humidity		$\leq 90\%$	
Weight		0.5kg	
Size		205*165*45mm	