



## Powerful Dual Band 800+2600MHz 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.

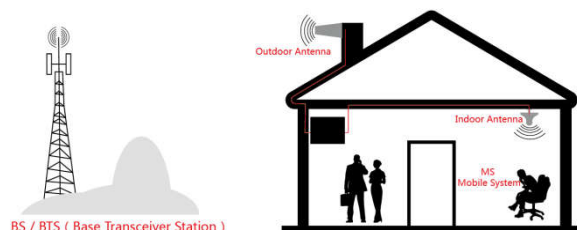
### FEATURES

- 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
- Golden color metal industrial design

### 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		LTE 800	832-862MHz/791-821MHz
		LTE 2600	2500-2570MHz/2620-2690MHz
Band Width		LTE 800	30MHz
		LTE 2600	70MHz
Gain		LTE 800	$68 \pm 3\text{dBm}$
		LTE 2600	$75 \pm 3\text{dBm}$
Automatic Gain Control		31dB	
MGC (Step Attenuation)		31dB@ 1dB/Step	
Output Power		LTE 800	$17 \pm 3\text{dBm}$
		LTE 2600	$24 \pm 3\text{dBm}$
Spurious Emission	9 kHz -150 kHz/1kHz	$\leq -36\text{dBm}$	
	150 kHz - 30 MHz/10kHz	$\leq -36\text{dBm}$	
	30 MHz - 1 GHz/100kHz	$\leq -36\text{dBm}$	
	1 GHz- 12.75 GHz/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	LTE 800	$\leq 6\text{dB}$	
	GSM 900	$\leq 6\text{dB}$	
	LTE 2600	$\leq 6\text{dB}$	
Noise Figure		$\leq 8\text{dB}$	
Delay		$\leq 1 \mu\text{s}$	

I/O Impedance	50 Ω
RF Connector	N-Type (Female)
Operating Temperature	-25°~+55°
Power Supply	DC 24V
Power consumption	≤75W
Environment Conditions	IP43
Humidity	≤90%
Weight	4.55kg
Size	274*265*58mm