



850+1800+2100MHz Selective 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.

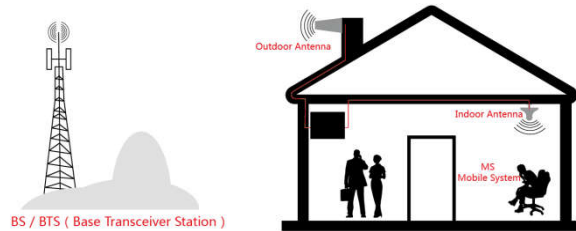
FEATURES

- Improve any three mobile networks at the same time
- LCD display the input/output signal strength
- Auto isolation detection
- Auto gain control
- Auto level control
- Supports from 0.2 to 30MHz bandwidth adjusted(Customized).
- Center frequency movable
- Smart LCD to guide the installation
- Wifi control and monitor

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	850MHz	824-849MHz / 869-894MHz	
	1800MHz	1710-1785MHz / 1805-1880MHz	
	2100MHz	1920-1980MHz / 2110-2170MHz	
Bandwidth	900MHz	35MHz , Supports from 0.2 to 20MHz adjusted	
	1800MHz	75MHz , Supports from 0.2 to 20MHz adjusted	
	2100MHz	60MHz , Supports from 0.2 to 20MHz adjusted	
Gain	70dB		
Output Power	17dBm		
Automatic Gain Control	31dB		
MGC (Step Attenuation)	20dB@ 1dB/Step		
Spurious Emission	9 kHz -150 kHz/1kHz	≤ -36 dBm	
	150 kHz - 30 MHz/10kHz	≤ -36 dBm	
	30 MHz - 1 GHz/100kHz	≤ -36 dBm	
	1 GHz- 12.75 GHz/1MHz	≤ -30 dBm	
ACPR	Downlink Fully comply with 3GPP 36.106		
	Fully comply with 3GPP 36.106		
Unwanted emissions	Fully comply with 3GPP 36.106		
VSWR	≤ 2		
Ripple	800MHz	≤ 6 dB	
	900MHz	≤ 6 dB	
	2100MHz	≤ 6 dB	
Noise Figure	≤ 8 dB		
Delay	$\leq 1 \mu s$		
I/O Impedance	50Ohm		
RF Connector(Customers to Choose)	4310-Type (Female)		

Operating Temperature	-25°~+55°
Power Supply	DC 24V
Power consumption	≤75W
Environment Conditions	IP43
Humidity	≤90%
Weight	≤7kg
Size	325*270*60 (mm)