



Multi-Band High Power 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.

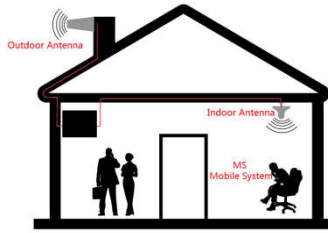
FEATURES

- 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 disturb 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		Customizable: B1/B3/B5/B8/B38
Band Width		Customizable
Gain		85dB
Automatic Gain Control		31dB
MGC (Step Attenuation)		31dB@ 1dB/Step
Output Power		28 ± 3dBm
Spurious Emission	9 kHz - 150 kHz/1kHz	≤ -36dBm
	150 kHz - 30 MHz/10kHz	≤ -36dBm
	30 MHz - 1 GHz/100kHz	≤ -36dBm
	1 GHz- 12.75 GHz/1MHz	≤ -30dBm
ACPR		Uplink Fully comply with 3GPP 36.106
		Downlink Fully comply with 3GPP 36.106
Unwanted emissions		Fully comply with 3GPP 36.106
VSWR		≤ 2
Ripple	GSM 900	≤ 6dB
	DCS 1800	≤ 6dB
	UMTS 2100	≤ 6dB
Noise Figure		≤ 8dB
Delay		≤ 1 μs
I/O Impedance		50Ω
RF Connector(Customers to Choose)		N-Type (Female)
Operating Temperature		-25°~+55°
Power Supply		DC 24V
Power consumption		≤ 75W
Environment Conditions		IP43
Humidity		≤ 90%
Weight		≤ 8.5kg
Size		416x268x71mm