



Single Band AWS 1700MHz 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.

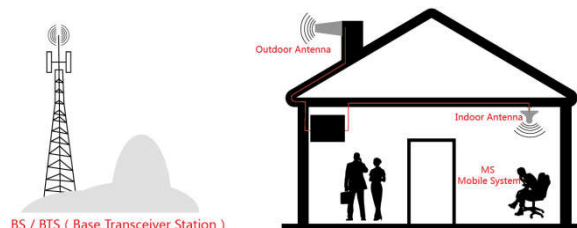
FEATURES

- Improve any 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		1710-1755MHz/2110-2155MHz
Band Width		45MHz
Gain		68 ± 2dB
Automatic Gain Control		31dB
MGC (Step Attenuation)		20dB@ 1dB/Step
Output Power		17 ± 3dBm
Spurious Emission	9 kHz -150 kHz/1kHz	≤-36dBm @1kHz
	150 kHz - 30 MHz/10kHz	≤-36dBm@10kHz
	30 MHz - 1 GHz/100kHz	≤-36dBm@100kHz
	1 GHz- 12.75 GHz/1MHz	≤-30dBm@1kHz
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		≤5dB
Noise Figure		≤5dB
Delay		≤3 μ s
I/O Impedance		50Q
RF Connector		SMA-Type (Female)
Operating Temperature		-25°~+55°
Power Supply		DC 5V2A
Power consumption		≤15W
Environment Conditions		IP43

Humidity	$\leq 90\%$
Weight	0.35kg
Size	165X115X35mm