

### Single Band GSM 900MHz 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 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		890-915MHz/935-960MHz
Band Width		25MHz
Gain		68±2dB
Automatic Gain Control		31dB
MGC (Step Attenuation)		20dB@ 1dB/Step
Output Power		17±3dBm
Spurious Emission	9 kHz -150	≤-36dBm @1kHz
	kHz/1kHz	
	150 kHz - 30	≤-36dBm@10kHz
	MHz/10kHz	
	30 MHz - 1	≤-36dBm@100kHz
	GHz/100kHz	
	1 GHz- 12.75	≤-30dBm@1kHz
	GHz/1MHz	
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	≤90%
Weight	0.35kg
Size	165X115X35mm