

### Dual Band 850+1900MHz 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.

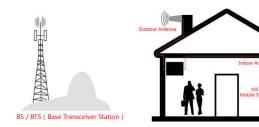
#### **FEATURES**

- · 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		CDMA 850	824-849MHz/869-894MHz	
		PCS 1900	1850-1910MHz/1930-1990MHz	
Band Width		CDMA 850	25MHz	
		PCS 1900	60MHz	
Gain		68±3dB		
Automatic Gain Control		31dB		
MGC (Step Attenuation)		20dB@ 1dB/Step		
Output Power		17±3dB		
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		≪9dB		
Delay		≪3 μ <b>s</b>		
I/O Impedance		50 Ω		
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	145×165×38mm