



Dual Band 850+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.

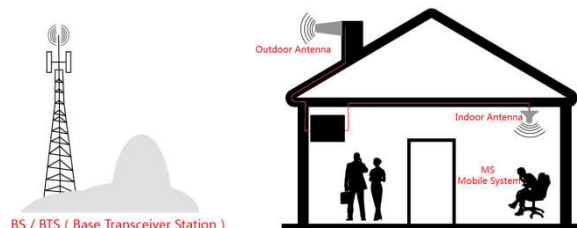
FEATURES

- Improve any 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 |
| | | AWS 1700 | 1710-1755MHz/2110-2155MHz |
| Band Width | | CDMA 850 | 25MHz |
| | | AWS 1700 | 45MHz |
| Gain | | 68 ± 3dB | |
| Automatic Gain Control | | 31dB | |
| MGC (Step Attenuation) | | 20dB@ 1dB/Step | |
| Output Power | | 17 ± 3dB | |
| 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 | | ≤9dB | |
| Delay | | ≤3 μ s | |
| I/O Impedance | | 50 Ω | |
| RF Connector | | SMA-Type (Female) | |
| Operating Temperature | | -25°~+55° | |
| Power Supply | | DC 5V2A | |

| | |
|------------------------|--------------|
| Power consumption | $\leq 15W$ |
| Environment Conditions | IP43 |
| Humidity | $\leq 90\%$ |
| Weight | 0.35kg |
| Size | 145×165×38mm |