



Vehicle CDMA 850MHz mini 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: Car, Vehicle, Bus

Technical Specification

SPECIFICATIONS		PARAMETERS
Frequency Range		824-849MHz/869-894MHz, Customizable
Band Width		25MHz
Gain		UL: 55dB / DL: 50dB
Automatic Gain Control		31dB
MGC (Step Attenuation)		20dB@ 1dB/Step
Output Power		UL: 17dBm / DL: 2dBm
Spurious Emission	9 kHz -150 kHz/1kHz	$\leq -36\text{dBm @}1\text{kHz}$
	150 kHz - 30 MHz/10kHz	$\leq -36\text{dBm@}10\text{kHz}$
	30 MHz - 1 GHz/100kHz	$\leq -36\text{dBm@}100\text{kHz}$
	1 GHz- 12.75 GHz/1MHz	$\leq -30\text{dBm@}1\text{kHz}$
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		$\leq 5\text{dB}$
Noise Figure		$\leq 5\text{dB}$
Delay		$\leq 3 \mu\text{s}$
I/O Impedance		50Q
RF Connector		SMA-Type (Female)
Operating Temperature		-25°~+55°
Power Supply		DC 5V2A
Power consumption		$\leq 15\text{W}$
Environment Conditions		IP43
Humidity		$\leq 90\%$
Weight		0.35kg
Size		165X115X35mm