

High Power RF Repeater



OVERVIEW

ATNJ RF repeater with industrial design, combines two mobile net work signals together and improves the mobile voice and data communication, aiming to provide a more cost-effective solution for a big coverage. ATNJ RF repeater is easy to install and maintain, which could help signal provider get fast return.

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

Center frequency of each sub-band is adjustable in band, range 0.2-20MHz for each sub-band Each Band supports 2 maximum sub-bands`

OLED screen displays the repeater functions intuitively

Lower Power Consumption, Lower Interference

Auto isolation detection

Auto gain control

Auto level control, limit the output power to ensure stable coverage.

Manual gain control, attenuate the gain among 1-31dB range with 1dB each step

Auto uplink noise reduction

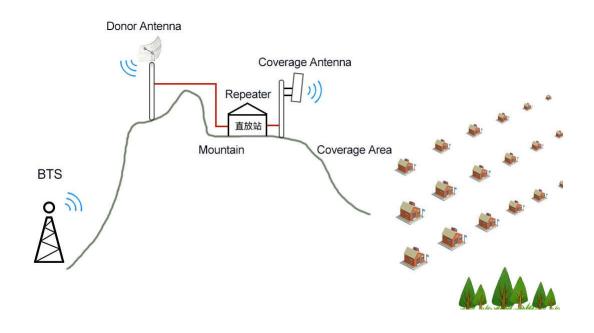
Control Repeater by WIFI/USB/WAN/SIM Card (Optional)

WHERE TO USE

Indoor: Hotels, Exhibition Centers, Basement, Parking Lots, Shopping Malls, Apartments...

Outdoor: Airport, Tunnel, Village, Mining Area, Court, Tourism Area...

APPLICATION SCENE



SPECIFICATIONS		PARAMETERS		
Frequency Range		GSM 900	890-915MHz/935-960MHz	
Gain		90 ±2dBm		
MGC (Step Attenuation)		31dB @1dB/ Step		
Auto Gain Control		31dB Min		
Output Power		Uplink 27 \pm 2dBm		
		Downlink 37 ± 2dBm		
Spurious Emission		9kHz∼1GHz≤-36dBm		
		1GHZ∼12.75GHz ≤ -30dBm		
Inter-modula	Inter-modulation Products (GSM)		≤ -42dBc	
ACRR		Uplink ≥36 dB (5M/10M)		
		Downlink ≥42 dB (5M/10M)		
	VSWR		≤ 1.5	
	GSM	≤ 3dB		
Ripple	UMTS	≤ 2dB/3.84MHz		
	L800	≤ 3dB@BW		
I/0 Impedance		50Ω		
Noise Figure		≤ 8dB		

System Delay		≤ 1µs	
EVM	UMTS	≤ 8%	
	LTE800	≤ 12.5%	
PCDE		≤ -35dB	
RF Connector(Customers to Choose)		N-Type (Female)	
Operating Temperature		-10℃~+55℃	
Power Supply		100∼265V AC	
Power Consumption		≤200W	
Environment Conditions		IP56	
Humidity		≤90%	
Weight		≤18kg	