

# RF Repeater\_Dual Band



1800-2100 MHz

JTD-RP-C23L-DW-23-75

JIETONG DIGITAL

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## LTE1800+LTE/WCDMA2100

The RF Repeater provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. And its easy installation and maintenance can help carrier get fast return.

The 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 retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

## Key features

- Two signal ports with full duplex design.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink.
- Stable and improved signal transmission quality.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Auto Isolation check between service and donor antennas.
- Smart mode to auto-adjust gain according to the isolation and signal level received by donor site.

## Advantages

- ☑ LCD display to show the instant gain and power
- ☑ MGC available for both uplink and downlink
- ☑ AGC to control output power at its maximum power level
- ☑ Low consumption



# Specifications

## Technical characteristics

Item	Specifications		
<b>System</b>	LTE1800 / WCDMA&LTE2100		
<b>Working Frequency</b>	<b>Uplink</b>	1710~1785MHz/1920~1980MHz	
	<b>Downlink</b>	1805~1880MHz/2110~2170MHz	
<b>Working Bandwidth</b>	75MHz/60MHz		
<b>Maximum Output Power</b>	<b>Uplink</b>	17dBm per Band 23dBm per Band	17dBm per Band 23dBm per Band
<b>Maximum Gain</b>	75dB		
<b>AGC Range</b>	≥ 25dB		
<b>MGC Range</b>	0~31dB@Step of 1 dB		
<b>VSWR</b>	≤ 1.5		
<b>System Delay</b>	≤ 1.0μs		
<b>Noise Figure</b>	≤6dB		
<b>Spurious Emission</b>	9kHz~1GHz: ≤ -36dBm		
	1GHz~12.75GHz: ≤ -30dBm		
<b>Alarm Monitoring System</b>	DC & Smart Function ON/OFF, Alarm RED When AGC control over 10 dB		
<b>Isolation Detection</b>	Isolation Check During Boot Time		
<b>RF Connector Type</b>	2xN-Female(1 pcs BS Port and 1 pcs MS Ports)		
<b>I/O Impedance</b>	50Ω		
<b>Ingress Protection</b>	Indoor (IP40)		
<b>Operating Temperature</b>	-25°C~55°C		
<b>Relative Humidity</b>	≤95%		
<b>Dimensions</b>	228x170x65mm		
<b>Weight</b>	≤4Kg		
<b>Power Supply</b>	AC100V ~240V, 50/60Hz,		
<b>Power Consumption</b>	≤25W		
<b>Mounting Type</b>	Wall Mounting		

# Applications

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To expand signal coverage or fill signal blind area where signal is weak or unavailable.

**Outdoor:** Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, ...

**Indoor:** Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...

