

RF Repeater_Dual Band



1800-2100 MHz

JTD-RP-C20L-DW-20-70

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	
System	LTE1800 / WCDMA<E2100	
Working Frequency	Uplink	1710~1785MHz/1920~1980MHz
	Downlink	1805~1880MHz/2110~2170MHz
Working Bandwidth	75MHz/60MHz	
Maximum Output Power	Uplink	≥15dBm per Band
	Downlink	≥20dBm per Band
Maximum Gain	≥70dB	
AGC Range	≥ 25dB	
MGC Range	0~31dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤ 1.0μs	
Noise Figure	≤6dB	
Spurious Emission	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
Alarm Monitoring System	DC & Smart Function ON/OFF, Alarm RED When AGC control over 10 dB	
Isolation Detection	Isolation Check During Boot Time	
RF Connector Type	2xN-Female(1 pcs BS Port and 1 pcs MS Ports)	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP40)	
Operating Temperature	-25°C~55°C	
Relative Humidity	≤95%	
Dimensions	128x170x65mm	
Weight	≤2.2Kg	
Power Supply	AC100V ~240V, 50/60Hz,	
Power Consumption	≤12W	
Mounting Type	Wall Mounting	

Applications

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, ...

