

RF Repeater_Single Band

1800 MHz

JTD-RP-C20E-D (20dBm)



LTE1800(FDD)

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.
- Stable and improved signal transmission quality.
- Compact size with stable performance.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Auto Isolation check between service and donor antennas.
- Auto shut off function available for both uplink and downlink.
- Simple installation with external AC/DC adapter.
- Cost-effective for practical solutions.

Advantages

- ☑ Multi_standards/Multi_operators
- ☑ Support antenna isolation detection
- ☑ LED real-time display

Specifications

Parameters		Uplink	Downlink
Frequency Range	LTE1800	1710-1785MHz	1805 ~ 1880MHz
Operation Bandwidth (-3dB)		Wide Band	
Maximum Gain		≥60dB	≥60dB
Output Power		≥20dBm	≥20dBm
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≅ 45dB	
Spurious Emission	9KHz~1GHz	≅ -36dBm	
	1GHz~12.75GHz	≅ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≅ 1.5	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	ISO LED	Alarm Red when isolation is not enough	
Signal Strength Indicator		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off.	
AGC Alarm		Alarm RED when AGC control over 10dB	
Smart Mode		OFF when input signal ≅ 5dBm; GREEN when input signal 5-10dBm; RED when input signal at its maximum power.	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		≤15W	
Power Supply		Input: AC 110-240V; Output: DC 6V/3A	
Operating Temperature		-10℃~50℃	
Environment Conditions		IP30	
Dimensions (D x W x H)		118.2*91.2*18.2mm	
Weight		≤1KG	

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, ...

