

# RF Repeater\_Quad Band



700-2100 MHz

**JTD-DRP-LGDW-430-37 (37dBm)**

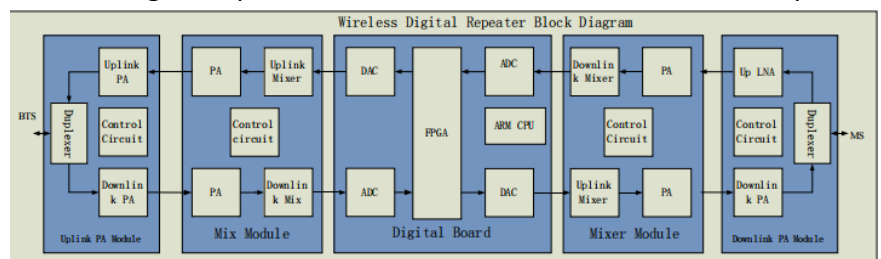
**JIETONG DIGITAL**

*GET CONNECTED*

## LTE700+ LTE900+LTE1800+LTE2100

Digital Repeater use the software defined radio (here we call SDR) technology to transfer the mobile signals into digital numbers of 0 and 1, so that the signals can be processed in the digital mode. Compared with analog repeaters, SDR not only is able to improve the cell enhancement performance, but also strengthen and add more functions to the repeaters. SDR enables the future networks to work on a single hardware platform, and realize the systems of different frequencies and more functions simply by software, which in a long run will make the system more flexible, easier and quicker to implement without cost increase.

Compared with building a new base station, digital repeater is a more economical solution to improve signal coverage and communication quality. And it is easy to install and maintain, which can help operators quickly achieve coverage results.



## Key features

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion.
- 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.
- DSP Module Supporting up to 4 sub-bands adjustable in each frequency band.
- USB port provides a link to a notebook for local supervision or IP Based NMS (Network Management System) that can remotely supervise repeater's working status and download operational parameters to the repeater Via Ethernet.

## Advantages

- ☑ Multi\_standards/Multi\_operators
- ☑ 4 sub-bands in each Band
- ☑ 0.2~30MHz Tune Band Width  
Per Sub-Band
- ☑ 120MHz Band Width Per Band



# Specifications

## Technical characteristics

Items		Specifications			
System		LTE700	UMTS/LTE900	LTE1800	UMTS/LTE2100
Frequency Range	Uplink	703~748MHz	885~915MHz	1710~1775MHz	1920~1980MHz
	Downlink	758~803MHz	930~960MHz	1805~1870MHz	2110~2170MHz
Working Bandwidth(Digital Filter)		4Sub-Bands, 0.2-30MHz Tune Bandwidth per Sub-Band	4Sub-Bands, 0.2-30MHz Tune Bandwidth per Sub-Band	4Sub-Bands, 0.2-30MHz Tune Bandwidth per Sub-Band	4Sub-Bands, 0.2-30MHz Tune Bandwidth per Sub-Band
Output Power		Uplink 27±2dBm per Band Downlink 37±2dBm per Band			
Maximum Gain		90±3dB per Frequency Band			
Gain Adjustment Range		0~31dB/1dB(The Gain of Each Sub-band can be Adjusted Separately)			
AGC Range		≥ 20dB			
VSWR		≤ 1.8			
Noise Figure		≤ 8dB			
Spurious Emission		9KHz~1GHz: ≤ -36dBm			
		1GHz~12.75GHz: ≤ -30dBm			
Maximum Input Power(Non-Destructive)		-10dBm			
System Delay		≤ 8μs			
I/O Impedance		50Ω			
RF Connector		2XN- Female(One BTS Port, One MS Port)			
Power Supply		AC100~220V, 50/60Hz			
Power Consumption		≤ 350W			
Dimensions		500*440*235mm			
Weight		≤ 45kg			
Operating Temperature		-25 ~ +55 °C			
Application		Indoor or Outdoor(IP65)			
Mounting		Wall Mounting			
Relative Humidity Range		≤95%(Non Condensing)			
Local Control		Via USB Interface and Wi-Fi Hotspot			
Isolation Detection		Manual Isolation Check Between Service and Donor antennas			

# Applications

---

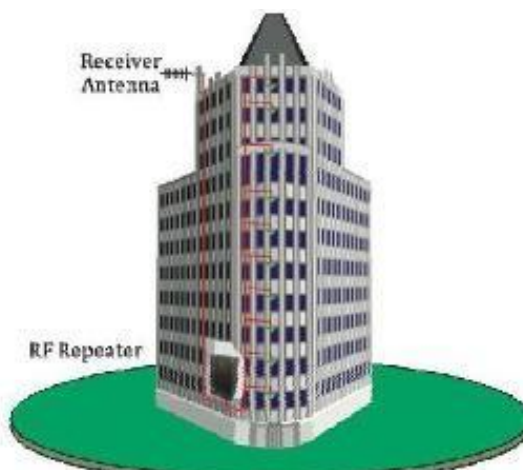
To expand signal coverage or fill signal blind area where signal is weak or unavailable.

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

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



BTS Coverage



Repeater Coverage