

Digital RF Repeater_Quad-Band



700-2100 MHz

JTD-DRP-LGDW-90-37 (37dBm)

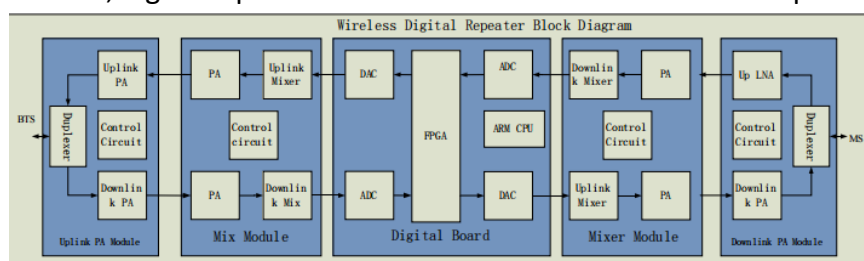
JIETONG DIGITAL

GET CONNECTED

LTE700+LTE900+LTE1800+LTE/UMTS2100

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

- Two signal ports with full duplex design.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- 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.

Advantages

☑ Multi_standards/Multi_operators

☑ Remote control (Option)

☑ Bandwidth Programmable

☑ Multi-Band Selective

☑ Support to monitor donor signal parameters for easy optimization and troubleshooting



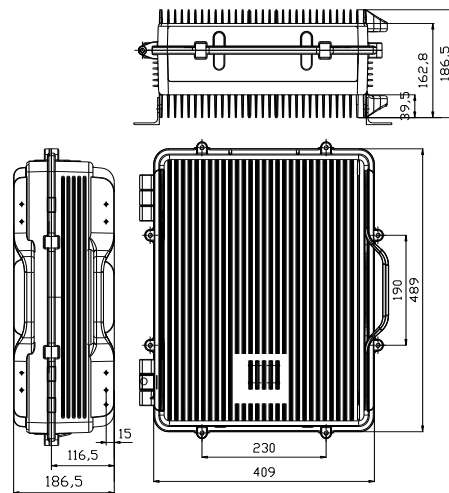
Specifications

Technical characteristics

Item		Specification	
		Uplink	Downlink
Frequency Range (MHz)	LTE 700 Band	703~728	758~803
	LTE 900 Band	885 ~ 915	930 ~ 960
	LTE 1800 Band	1710 ~ 1775	1805 ~ 1870
	LTE /UMTS 2100 Band	1920 ~ 1980	2110 ~ 2170
Bandwidth(MHz)	LTE 700 Band	0.2-20	
	LTE 900 Band	0.2-20	
	LTE 1800 Band	0.2-20	
	LTE /UMTS 2100 Band	0.2-20	
Sub band number	LTE 700 Band	3	
	LTE 900 Band	3	
	LTE 1800 Band	3	
	LTE /UMTS 2100 Band	3	
Max. Total Output Power(dBm)Center Frequency		23±2	37±2
Max. Gain (dB) Center Frequency at 25°C		85±3	90±3
ATT Adjustable Range (dB)/(Step) 1dB		0~30 @ 1 dB step	
ATT Adjustable Error (dB)		≤ ±1.5	≤ ±1.5
ALC (dB)		0~25	
Noise Figure (dB) (Max. Gain)		≤ 8.0	
Input VSWR(Power up, Min Gain, Pin=-30dBm)		≤ 1.8	
Ripple In Band (P-P) (dB)At +25°C	GSM900 Band	≤±3.0@EBW	
	GSM1800 Band	≤±4.0@EBW	
	UMTS2100 Band	≤±4.0@EBW	
Out of Band Rejection (dBc)At +25°C	±600KHz offset	≤-15	
	±1MHz offset	≤-30	
	±5MHz offset	≤-45	
Spurious Emission (dBm) @ Out Of Band 2.5MHz Offset	9kHz~150kHz	≤ -36dBm/1KHz	
	150kHz~30MHz	≤ -36dBm/10KHz	
	30MHz~1GHz	≤ -36dBm/100KHz	

	1GHz~12.75GHz	≤ -30dBm/1MHz
3rd Inter-modulation (dBc)(Max Gain)		≤ -36 (dual-tone interval 600kHz)
Time Delay (us)		≤ 5.0
RF Connector		N(f)
Input / output Impedance (Ω)		50
Power Supply		AC110-220V/50Hz~60Hz
Temperature Range (°C)		-25 ~ +55
Humidity Range (%)		5~95
Weight (Kg)		≤40
Dimension (mm)		489*409*186.5
Monitor & Alarm	Local Monitor	USB
	Remote Monitor	RJ45 , SMS 4G Modem(Optional)

Outline Dimension:



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, ...

