

RF Repeater_Penta Band



700-3500 MHz

JTD-RP-EGDWN-17-60(17dBm)

JIETONG DIGITAL

GET CONNECTED

LTE700+LTE900+LTE1800+LTE/UMTS2100+5GNR 3500-TDD

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.
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- 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.
- Simple installation with external AC/DC adapter.
- Cost-effective for practical solutions.

Advantages

- ☑ **Multi_standards/Multi_operators**
- ☑ **Support antenna isolation detection**
- ☑ **Smart function to set the proper gain automatically**



Specifications

Technical characteristics

Items		Specifications				
System		LTE700	LTE900	LTE1800	LTE2100	5G NR TDD-3500
Frequency Range(MHz)	Uplink	703~748	885~915	1710~1775	1920~1980	3300~3570
	Downlink	758~803	925~960	1805~1870	2110~2170	3300~3570
Working Bandwidth		45MHz	30MHz	65MHz	60MHz	270MHz
Output Power	Uplink	17±2dBm	17±2dBm	17±2dBm	17±2dBm	17±2dBm
	Downlink	0±2dBm	0±2dBm	0±2dBm	0±2dBm	0±2dBm
Maximum Gain		60±3dB				
AGC&MGC Range		≥ 20dB				
VSWR		≤ 2.4				
Noise Figure		≤ 8dB				
Spurious Emission		9kHz~1GHz: ≤ -36dBm				
		1GHz~12.75GHz: ≤ -30dBm				
System Delay		≤ 1.5μs				
I/O Impedance		50 Ω				
RF Connector		6XN- Female(1x BTS Port and 5x MS Port)				
Power Supply		Input: AC100~240V				
Dimensions		318*265*113mm				
Weight		≤ 10kg				
Alarm Monitoring System		Alarm for Uplink Self-Oscillation				
Isolation Detection		Isolation Check During Boot Time				
LED Indicator		Power Supply, Alarm, State				
Operating Temperature		-10 ~ +50°C				
Application		Indoor(IP40)				
Relative Humidity Range		≤ 95%(Non Condensing)				
Mounting		Wall Mounting				
Local Control		Via USB Interface				
NMS Mode		IP Connectivity via RJ45 Port(Cloud Network Management System)				

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, ...

