

MIMO RF Repeater_Dual Band



1800-2100 MHz

JTD-MRP-DW-37-85 (37dBm)

JIETONG DIGITAL

GET CONNECTED

LTE1800+LTE2100

The dual band MIMO RF Repeater is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to improve signal coverage and communication quality. And its easy installation and maintenance can help carrier get fast return.

The MIMO RF Repeater is working as a relay between the BTS and mobiles. It receives the low-power signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Coverage Antenna 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.
- 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.
- Stable and improved signal transmission quality.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- 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**
- ☑ **Remote control**
- ☑ **Digital features:**
 - Balancing operator level (Option)**
- ☑ **Isolation Detection**
- ☑ **Low consumption**

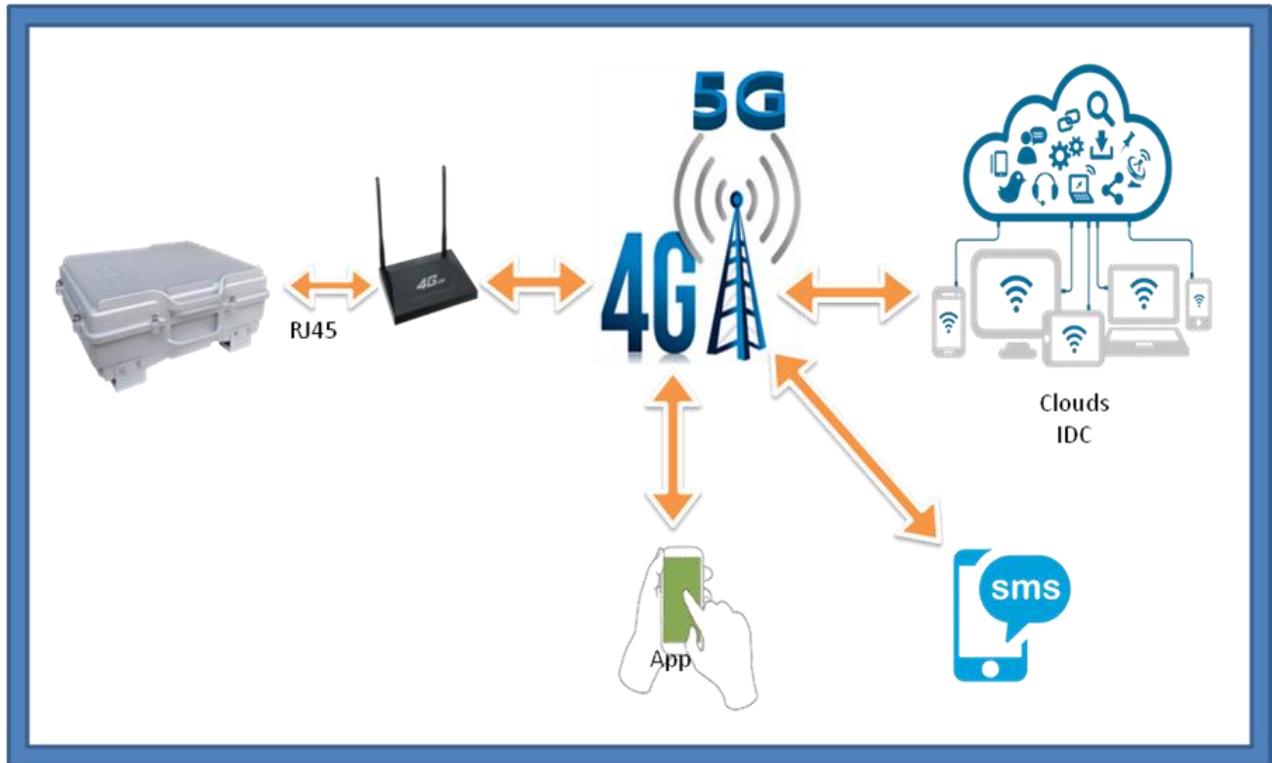


Specifications

Technical characteristics

Items		Specifications			
System		LTE1800	LTE2100	LTE1800 MIMO	LTE2100 MIMO
Frequency Range	Uplink	1710~1785MHz	1920~1980MHz	1710~1785MHz	1920~1980MHz
	Downlink	1805~1880MHz	2110~2170MHz	1805~1880MHz	2110~2170MHz
Working Bandwidth		75MHz	60MHz	75MHz	60MHz
Output Power	Uplink	27±2dBm	27±2dBm	27±2dBm	27±2dBm
	Downlink	37±2dBm	37±2dBm	37±2dBm	37±2dBm
Maximum Gain		85±3dB			
Gain Adjustment Range		0~31dB @ Step of 1dB			
AGC Range		≥20dB			
VSWR		≤ 1.5			
Noise Figure		≤ 8dB			
Maximum Input Power (No-destructive)		-10dBm			
Spurious Emission		9KHz~1GHz: ≤ -36dBm 1GHz~12.75GHz: ≤ -30dBm			
System Delay		≤ 1.5μs			
I/O Impedance		50Ω			
RF Connector		4xN-Female(2 BTS Ports, 1xLTE1800<E2100MHz Combination, 1xLTE1800 MIMO<E2100MIMO Combination; 2 MS Ports, 1xLTE1800<E2100MHz Combination, 1xLTE1800 MIMO<E2100MIMO Combination)			
Power Supply		AC100-220V, 50/60Hz			
Dimensions		500*440*235mm			
Weight		≤ 45kg			
Mounting		Wall Mounting			
Operating Temperature		-25 ~ +55 °C			
Application		Indoor or Outdoor(IP65)			
Relative Humidity Range		≤ 95%(Non Condensing)			
Local Control		Via USB Interface and Wi-Fi Hotspot			
Remote Mode(Optional)		Cloud NMS and SMS Via 4G Wireless Modem			
Isolation Detection		Manual Isolation Check Between Service and Donor antennas			

Network Management System (NMS)



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, ...

