

# RF Repeater\_Quad Band



**700-2100 MHz JTD-RP-LEDW-90-40 (40dBm)**

**JIETONG DIGITAL**

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## LTE700+LTE900+LTE1800+LTE/UMTS2100

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.
- 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.
- Low interference to BTS by adopting linear amplifier with high gain and low noise
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink
- Stable and improved signal transmission quality.
- Cost-effective for practical solutions.

## Advantages

**Multi\_standards/Multi\_operators**

**Remote control**

**Digital features:**

Balancing operator level (Option)

**Real-time display to show the instant power and gain for each link**

**Low consumption**



# 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                    |          | 45MHz   | 30MHz       | 65MHz        | 60MHz        |
| Output Power                         | Uplink   | 27±2dBm per Band  |             |              |              |
|                                      | Downlink | 40±2dBm per Band  |             |              |              |
| Maximum Gain                         |          | 90±3dB per Frequency Band                                 |             |              |              |
| Gain Adjustment Range                |          | 0~31dB @ Step of 1dB                                      |             |              |              |
| 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                         |          | ≤ 1.5μs   |             |              |              |
| 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

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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, ...

