

# RF Repeater\_Single Band

1800 MHz

**JTD-RP-C37L-D** (37dBm)



**JIETONG DIGITAL**

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## LTE1800

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.
- 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.
- Auto shut off function available for both uplink and downlink.
- 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**
- ☑ **LCD real-time display**



# Specifications

| Parameters                   |               | Uplink   | Downlink       |
|------------------------------|---------------|--|----------------|
| Frequency Range              | LTE1800       | 1710 ~ 1785MHz   | 1805 ~ 1880MHz |
| Operation Bandwidth (-3dB)   |               | Wide Band  |                |
| Maximum Gain                 |               | ≥80dB  | ≥90dB          |
| Output Power                 |               | ≥27dBm   | ≥37dBm         |
| MGC (Manual Gain Control)    |               | 31dB range/1dB step  |                |
| AGC (Automatic Gain Control) |               | ≧ 25dB   |                |
| Spurious Emission            | 9KHz~1GHz     | ≧ -36dBm   |                |
|                              | 1GHz~12.75GHz | ≧ -30dBm   |                |
| Noise Figure                 |               | ≤ 5dB  |                |
| VSWR                         |               | ≧ 1.5  |                |
| Group Delay                  |               | ≤1μs   |                |
| LED Alarm                    | Power LED     | DC ON/OFF  |                |
|                              | AGC LED       | GREEN @ Normal, Red @ ALC 10dB,  |                |
| ISO                          |               | When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off |                |
| Smart Mode                   |               | Automatically adjust the gain in both links according to the specific environment.     |                |
| Output signal strength       |               | Shown output signal strength with numerical number.                                    |                |
| RF Connector                 |               | N-Female   |                |
| Impedance                    |               | 50Ω  |                |
| Power Consumption            |               | ≤70W   |                |
| Power Supply                 |               | Input: AC 110~240V   |                |
| Operating Temperature        |               | -10℃~50℃   |                |
| Environment Conditions       |               | IP65   |                |
| Dimensions (D x W x H )      |               | 400*300*140mm  |                |
| Weight                       |               | ≤12KG  |                |

# 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, ...

