RF Repeater_Dual Band

JTD-RP-C27L-DW-27-80



GET CONNECTED

LTE1800+LTE/WCDMA2100

1800-2100 MHz

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.
- 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.
- 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.

Advantages

- ☑ LCD display to show the instant gain and power
- ☑ AGC to control output power at its maximum power level
- **☑** Low consumption



Specifications

Technical characteristics

| Item | | Specifications |
|-------------------------|--------------------|---|
| System | | LTE1800 / WCDMA<E2100 |
| Working Frequency | Uplink | 1710~1785MHz/1920~1980MHz |
| | Downlink | 1805~1880MHz/2110~2170MHz |
| Working Bandwidth | | 75MHz/60MHz |
| Maximum Output Power | Uplink Downlink | 20dBm per Band 20dBm per Band 27dBm per Band 27dBm per Band |
| Maximum Gain | | 80dB |
| AGC Range | | ≥ 25dB |
| MGC Range | | 0~31dB@Step of 1 dB |
| VSWR | | ≤ 1.5 |
| System Delay | | ≤ 1.0µs |
| Noise Figure | | ≤6dB |
| Spurious Emission | | 9kHz~1GHz: ≤ -36dBm |
| | | 1GHz~12.75GHz: ≤ -30dBm |
| Alarm Monitoring System | | DC & Smart Function ON/OFF, Alarm RED When AGC control over 10 dB |
| Isolation Detection | | Isolation Check During Boot Time |
| RF Connector Type | | 2xN-Female(1 pcs BS Port and 1 pcs MS Ports) |
| I/O Impedance | | 50Ω |
| Ingress Protection | | Indoor (IP40) |
| Operating Temperature | | -25°C~55°C |
| Relative Humidity | | ≤95% |
| Dimensions | | 310x170x65mm |
| Weight | | ≤4Kg |
| Power Supply | | AC100V ~240V, 50/60Hz, |
| Power Consumption | | ≤27W |
| Mounting Type | | Wall Mounting |

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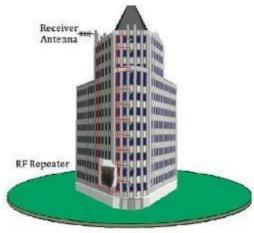
Applications

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, ...





Repeater Coverage