RF Repeater_Dual Band

1800-2100 MHz

JTD-RP-C20L-DW-20-70



LTE1800+LTE/WCDMA2100

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

☑ MGC available for both uplink

and downlink

AGC to control output power at

its maximum power level

☑ Low consumption



Specifications

Technical characteristics

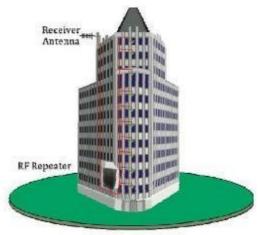
Item		Specifications
System		LTE1800 / WCDMA<E2100
Working Frequency	Uplink	1710~1785MHz/1920~1980MHz
	Downlink	1805~1880MHz/2110~2170MHz
Working Bandwidt	h	75MHz/60MHz
Maximum Output Power	Uplink Downlink	≥15dBm per Band ≥20dBm per Band
Maximum Gain	Dominik	≥70dB
AGC Range		≥ 25dB
MGC Range		0~31dB@Step 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		128x170x65mm
Weight		≤2.2Kg
Power Supply		AC100V ~240V, 50/60Hz,
Power Consumption		≤12W
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