

# RF Repeater\_Four Band

700-2100 MHz

**JTD-RP-XA20A** (20dBm)



## 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.
- 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 display**



# Specifications

Items		Specifications
System		LTE700&LTE900&LTE1800&WCDMA/LTE2100
Frequency Range	Uplink	703-748&885-915&1710-1775&1920-1980MHz
	Downlink	758-803&930-960&1805-1870&2110-2170MHz
Working Bandwidth		45MHz&30MHz&65MHz&60MHz
Maximum Output Power	Uplink	17±2dBm Per Frequency Band
	Downlink	20±2dBm Per Frequency Band
Maximum Gain		70±3dB Per Frequency Band
AGC Range(UL&DL)		≥ 20dB per Band
MGC Range(UL&DL)		≥ 30dB per Band
VSWR		≤2.4
Noise Figure		≤8dB
Maximum Input Power (Non-destructive)		≤-10dBm
System Delay		≤ 1.5μs
Spurious Emission		9kHz~1GHz: ≤-36dBm 1GHz~12.75GHz: ≤-30dBm
I/O Impedance		50 Ω
RF Connector		2xN-Female
Power Supply		Input:AC100~ 240V
Operating Temperature		-10 ~ +50 °C
Application		Indoor(IP30)
Alarm Monitoring System		Alarm for Uplink Self-Oscillation
Isolation Detection		Isolation Check During Boot Time
LED Indicator		Power Supply, Running, Alarm
Dimensions		318*265*113mm
Weight		≤10kg
Relative Humidity Range		≤ 95%(Non Condensing)
Mounting		Wall Mounting

# 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, ...

