### RF Repeater\_Quad Band





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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 Bandwid	ith	45MHz	30MHz	65MHz	60MHz
	lplink	27±2dBm per Band			
Output Power D	ownlink	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			

**Local Control** Via USB Interface and Wi-Fi Hotspot

**Isolation Detection** Manual Isolation Check Between Service and Donor antennas

**Relative Humidity Range** 

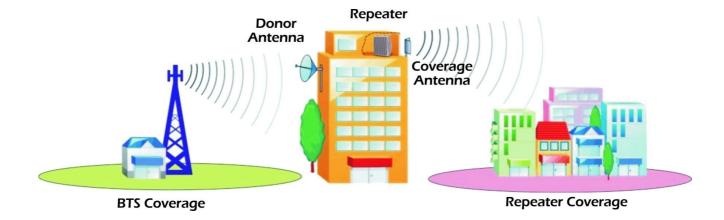
≤95%(Non Condensing)

# **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, ...

Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...



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