

# RF Repeater\_Single Band

3500 MHz

JTD-RP-5G NR -90-40 (40dBm)



**JIETONG DIGITAL**

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## 5G NR (TDD-3500)

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.
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- 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

- ☑ **Multi\_standards/Multi\_operators**
- ☑ **Remote control (Option)**
- ☑ **Digital features:**
  - Balancing operator level (Option)**
- ☑ **Low consumption**



# Specifications

## Technical characteristics

Item	Index		Remark
	Downlink	Uplink	
Frequency range (MHz)	3300-3600	3300-3600	
Maximum output power (dBm)	40±2	27±2	
ALC (dB)	≤ ±2.0		
Max Gain (dB)	90±3	85±3	
Gain adjustment range (dB)	≥25		
Intra band fluctuation (dB)	≤±3.5		
Delay (μs)	≤5		
Input / Output VSWR	≤1.5		
Noise (dB)	≤7.5	≤6.0	
EVM	≤3.5%		
PCDE (dB)	≤-35		
ACPR	≤-40dBc/30kHz		
Out-of-band spurious	9KHz~1GHz	≤-36dBm/100KHz	
	1G~12.75GHz	≤-30dBm/1MHz	
Out-of-band gain	1MHz≤ f_offset<5MHz	≤85	
	5MHz≤ f_offset	≤30	
Maximum input power	≥-10dBm		
Consumption	≤50W		
Power supply	100-260Vac , 47-63Hz		
Size	315*450*180		

※The configuration of the 5GNR TDD synchronous slots for all operators must be the same.

# Applications

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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, ...

