

# RF Repeater\_Single Band



**Tone Spread**  
Solutions for Wireless Signal

**3500 MHz**

**TS-RP-N-85-37 (37dBm)**

## 5GNR (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

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion
- 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.
- USB port provides a link to a notebook for local supervision or IP Based NMS (Network Management System) that can remotely supervise Repeaters working status and download operational parameters to the Repeater via Ethernet.

## Advantages

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



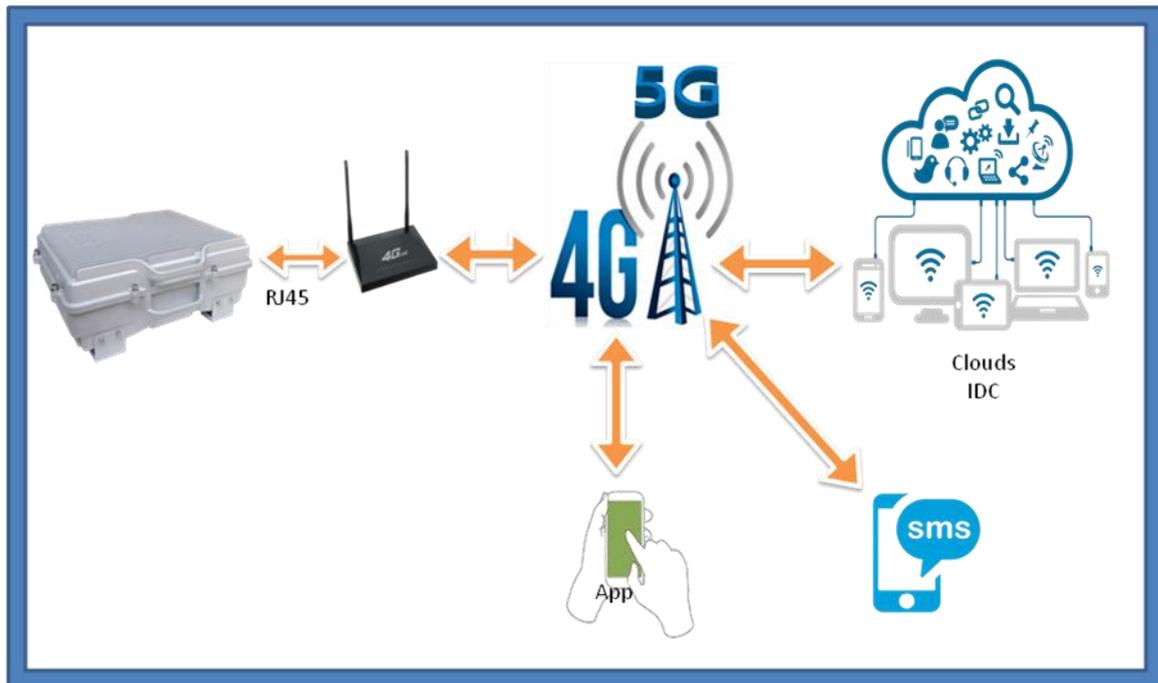
# Specifications

## Technical characteristics

Item	Specifications	
System	5G NR (TDD-3500)	
Working Frequency	Uplink	3300~3570MHz
	Downlink	3300~3570MHz
Working Bandwidth	270MHz	
Maximum Output Power	Uplink	27dBm per Band
	Downlink	37dBm per Band
Maximum Gain	85dB	
AGC Range	≥ 20dB	
MGC Range	0~30dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤ 5μs	
Noise Figure	≤6dB	
Spurious Emission	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
EVM	≤4.5%	
Maximum Input Power(Non-Destructive)	-10dBm	
NMS Function(Optional)	Real-time Alarm for Door Status, Temperature, Power Supply, VSWR, etc; Remote Control such as Turn On/Off, Increasing/Decreasing Output Power, etc; Real-time Status for UL/DL Gain, Input/Output Power, All Status of Repeater etc;	
RF Connector Type	2xN-Female	
I/O Impedance	50Ω	
Ingress Protection	Indoor or Outdoor (IP65)	
Operating Temperature	-10°C~50°C	
Relative Humidity	≤95%	
Dimensions	370x295x152mm	
Weight	≤12Kg	
Power Supply	AC100V ~240V, 50/60Hz	
Local Control	Via USB Interface or WiFi Hotspot	
Remote Mode	IP Connectivity via RJ45 Port(Cloud Network Management System)	
Mounting Type	Wall or Pole Mounting	

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

# Network Management System (NMS)



## 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, ...

