

Pico RF Repeater_Single Band

3500 MHz TS-RP-N-70-20 (20dBm)



5GNR (TDD-3500)

The Pico 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.
- Simple installation with external AC/DC adapter

Advantages

- Multi_standards/Multi_operators
- Remote control
- Digital features:
 - Balancing operator level (Option)
- Low consumption



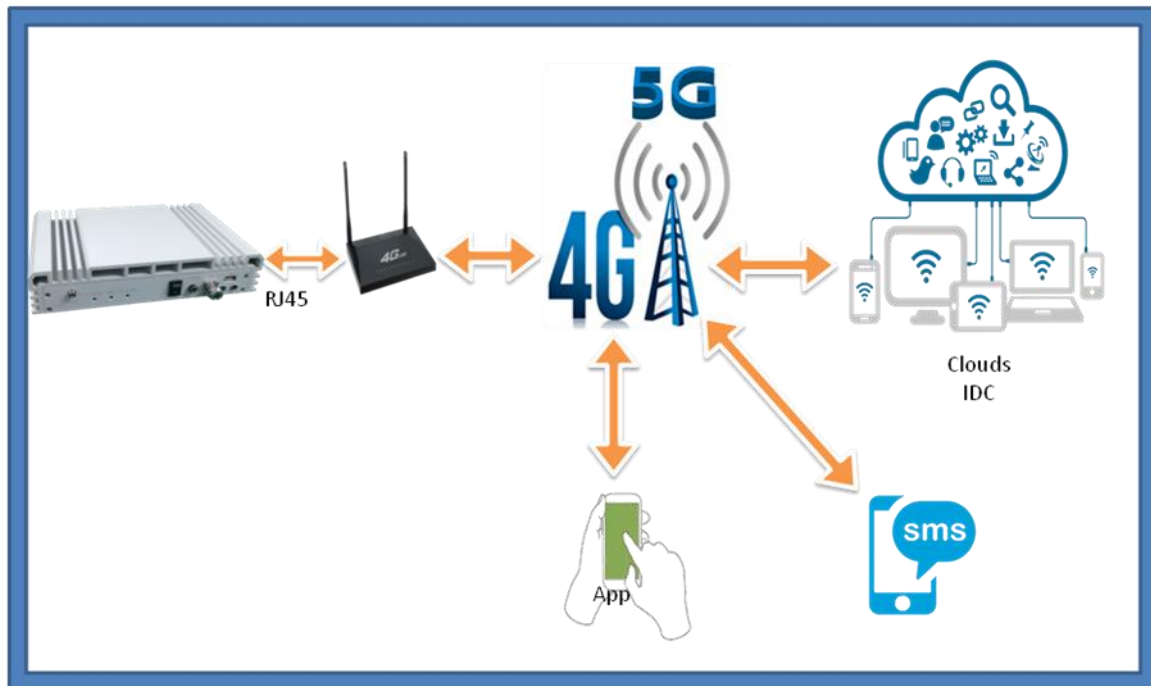
Specifications

Technical characteristics

Item	Specifications	
System	5G NR (TDD-3500)	
Working Frequency	Uplink	3300~3570MHz
	Downlink	3300~3570MHz
Working Bandwidth	270MHz	
Maximum Output Power	Uplink	17dBm
	Downlink	20dBm
Maximum Gain	70dB	
AGC Range	≥ 20dB	
MGC Range	0~31dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤ 5μs	
Noise Figure	≤5dB	
Spurious Emission	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
EVM	≤8%	
Alarm Monitoring System	Uplink Self-Oscillation, LED Indicator	
Isolation Detection	Isolation Check During Boot Time	
RF Connector Type	2xN-Female	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP30)	
Operating Temperature	-10°C~50°C	
Relative Humidity	≤95%	
Dimensions	188x265x68mm	
Weight	≤5Kg	
Power Supply	AC100V ~240V, 50/60Hz	
Power Consumption	≤30W	
Local Control	Via USB Interface	
Remote Mode	IP Connectivity via RJ45 Port(Cloud Network Management System)	
Mounting Type	Wall 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, ...

