

Pico RF Repeater_Triple Band



1800-3500 MHz

JTD-RP-DWN-20-40 (20dBm)

JIETONG DIGITAL

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LTE1800+LTE2100+5GNR (TDD-3500)

The Pico 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.
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink.
- 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.
- USB port provides a link to a notebook for local supervision or IP Based NMS(Network Management System) that can remotely supervise repeater's 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



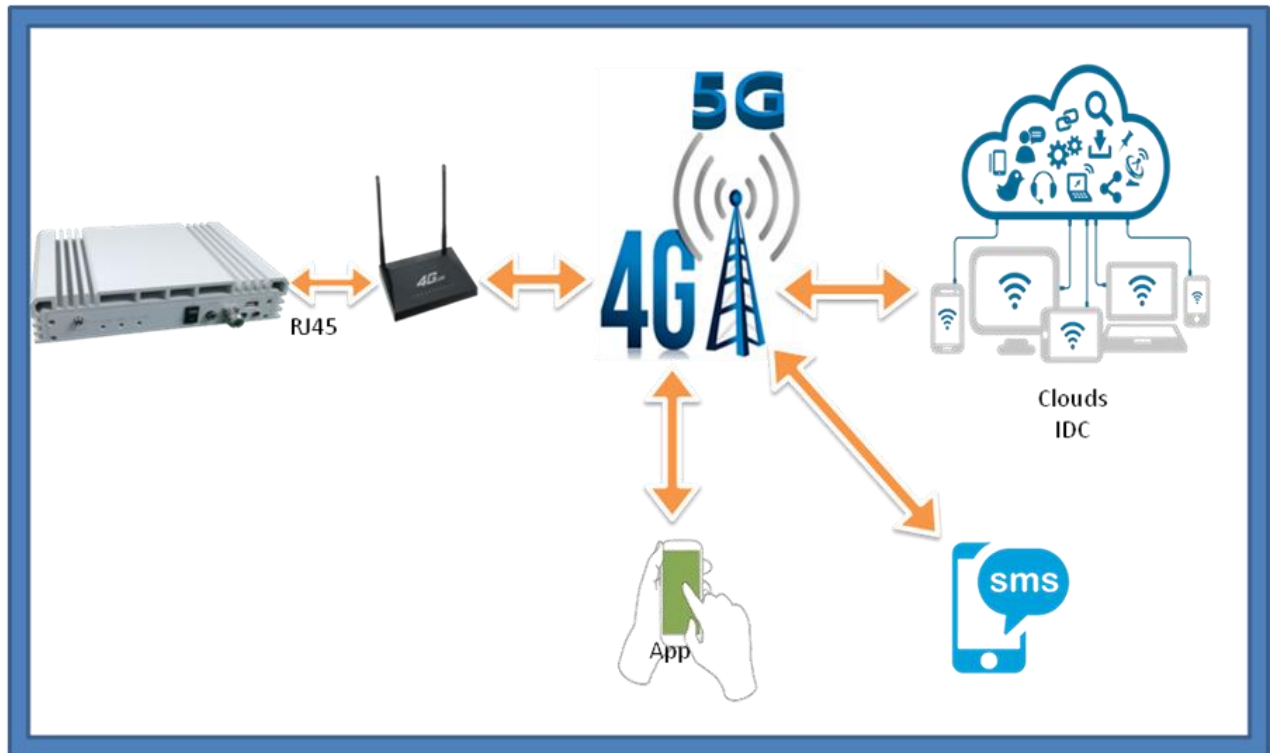
Specifications

Technical characteristics

Item	Specifications	
System	LTE1800/LTE2100/5G NR (TDD-3500)	
Working Frequency	Uplink	1710~1785MHz/1920~1980MHz/3300~3570MHz
	Downlink	1805~1880MHz/2110~2170MHz/3300~3570MHz
Working Bandwidth	75MHz/60MHz/270MHz/	
Maximum Output Power	Uplink	20dBm per Band
	Downlink	10dBm per Band
Maximum Gain	40dB	
AGC Range	≥ 20dB	
MGC Range	0~31dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤ 1.5μs	
Noise Figure	≤6dB	
Spurious Emission	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
Alarm Monitoring System	Real-time alarm for door status, temperature, power supply, VSWR, etc;	
Isolation Detection	Isolation Check During Boot Time	
RF Connector Type	2xN-Female(1 pcs BS Port and 1 pcs MS Ports)	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP30)	
Operating Temperature	-25°C~55°C	
Relative Humidity	≤95%	
Dimensions	318x265x68mm	
Weight	≤7Kg	
Power Supply	AC100V ~240V, 50/60Hz,5V 5A Max,	
Local Control	Via USB Interface and Wi-Fi	
Remote Mode	IP Connectivity via RJ45 Port (Cloud Network Management System) or 4G Modem	
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, ...

