

Pico RF Repeater_Quard Band

700-2100 MHz TS-RP-LGDW-60-20 (20dBm)



LTE700+LTE900+LTE1800+LTE2100

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.
- 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**



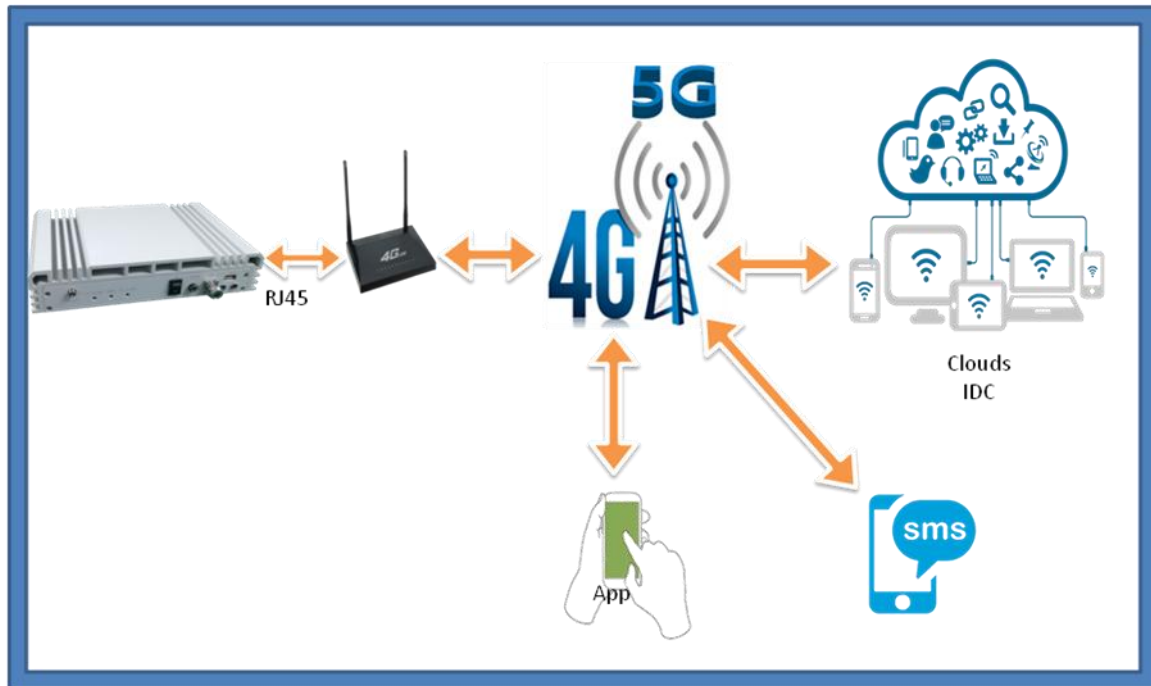
Specifications

Technical characteristics

Item	Specifications	
System	LTE700/ LTE900/LTE1800/LTE2100	
Working Frequency	Uplink	703~748/885~915/1710~1775MHz/1920~1980MHz
	Downlink	758~803/930~960/1805~1870MHz/2110~2170MHz
Working Bandwidth	45MHz/30MHz/65MHz/60MHz	
Maximum Output Power	Uplink	20dBm per Band
	Downlink	-5dBm per Band
Maximum Gain	60dB	
AGC Range	≥ 20dB	
MGC Range	0~30dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤ 1.5μs	
Noise Figure	≤8dB	
Spurious Emission	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
Alarm Monitoring System	Uplink Self-Oscillation, LED Indicator	
Isolation Detection	Isolation Check During Boot Time	
RF Connector Type	6xN-Female(1PCS BS Port and 5 PCS MS Ports)	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP30)	
Operating Temperature	-10°C~50°C	
Relative Humidity	≤95%	
Dimensions	318x265x113mm	
Weight	≤11Kg	
Power Supply	AC100V ~240V, 50/60Hz	
Local Control	Via USB Interface	
Remote Mode	IP Connectivity via RJ45 Port(Cloud Network Management System)	
Mounting Type	Wall Mounting	

※The configuration of the 5GNR 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, ...

