

# 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
- ☑ Smart Mode
- ☑ Smart Auto Level Control (ALC)
- ☑ Auto Isolation Check



# Specifications

## Technical characteristics

Item	Specifications	
<b>System</b>	LTE700/ LTE900/LTE1800/UMTS&LTE2100	
<b>Working Frequency</b>	<b>Uplink</b>	703~748/885~915/1710~1775MHz/1920~1980MHz
	<b>Downlink</b>	758~803/930~960/1805~1870MHz/2110~2170MHz
<b>Working Bandwidth</b>	45MHz/30MHz/65MHz/60MHz	
<b>Maximum Output Power</b>	<b>Uplink</b>	15dBm per Band
	<b>Downlink</b>	20dBm per Band
<b>Maximum Gain</b>	60dB	
<b>AGC Range</b>	≥ 20dB	
<b>MGC Range</b>	0~30dB@Step of 1 dB	
<b>VSWR</b>	≤ 1.5	
<b>System Delay</b>	≤ 1.0μs	
<b>Noise Figure</b>	≤6dB	
<b>Spurious Emission</b>	9kHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
<b>Alarm Monitoring System</b>	Uplink Self-Oscillation, LED Indicator	
<b>Isolation Detection</b>	Isolation Check During Boot Time	
<b>RF Connector Type</b>	2xN-Female(1PCS BS Port and 1 PCS MS Port)	
<b>I/O Impedance</b>	50Ω	
<b>Ingress Protection</b>	Indoor (IP40)	
<b>Operating Temperature</b>	-10°C~50°C	
<b>Relative Humidity</b>	≤95%	
<b>Dimensions</b>	310*170*65mm	
<b>Weight</b>	≤5.5Kg	
<b>Power Supply</b>	AC100V ~240V, 50/60Hz; Output DC 10V/6A	
<b>Power Consumption</b>	≤35W	
<b>LED Alarm</b>	Power LED, AGC Alarm LED, Smart LED	
<b>Smart Mode</b>	Smart function to set the proper gain automatically	
<b>Mounting Type</b>	Wall Mounting	

# 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, ...

