#### 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**





**☑** Smart Auto Level Control (ALC)

**☑** Auto Isolation Check



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# **Specifications**

#### **Technical characteristics**

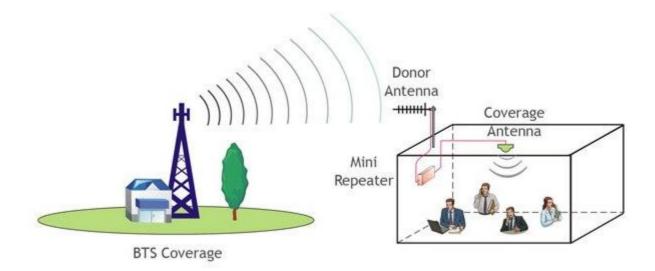
Item		Specifications
System		LTE700/ LTE900/LTE1800/UMTS&LTE2100
Working Frequency	Uplink	703~748/885~915/1710~1775MHz/1920~1980MHz
	Downlink	758~803/930~960/1805~1870MHz/2110~2170MHz
Working Bandwidt	h	45MHz/30MHz/65MHz/60MHz
Maximum Output Power	Uplink Downlink	15dBm per Band 20dBm per Band
Maximum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

## **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, ...



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