

RF Repeater_Triple-Band



Tone Spread
Solutions for Wireless Signal

900+1800+2100 MHz

TS-RP-CHT-GDW-90-37 (37dBm)

LTE900+LTE1800+LTE/UMTS2100

The 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.
- LCD display to show the instant gain and power.
- 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.
- AGC to control output power at its maximum power level.
- MGC available for both uplink and downlink.
- Auto Isolation check between service and donor antennas.

Advantages

- ✧ **Single Operator**
- ✧ **Smart Automatic Level Control**
- ✧ **LCD display to show the instant gain and power.**
- ✧ **Low interference & Oscillation prevention.**



Specifications

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Parameters		Uplink	Downlink
Frequency Range	LTE900	895 ~ 905MHz	940 ~ 950MHz
	LTE1800	1755 ~ 1775MHz	1850 ~ 1870MHz
	LTE/UMTS 2100	1960 ~ 1980MHz	2150 ~ 2170MHz
Operation Bandwidth (-3dB)		10/20/20 Mhz	
Maximum Gain		≥80dB	≥85dB
Output Power		≥25dBm	≥37dBm
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≧ 25dB	
Spurious Emission	9KHz-1GHz	≧ -36dBm	
	1GHz-12.75GHz	≧ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≧ 1.5	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	AGC LED	GREEN @ Normal, Red @ ALC 10dB,	
ISO		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off	
Smart Mode		Automatically adjust the gain in both links according to the specific environment.	
Output signal strength		Shown output signal strength with numerical number.	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		200W	
Power Supply		Input: AC 110-240V	
Operating Temperature		-10°C ~50°C	
Environment Conditions		IP65	
Dimensions (D x W x H)		447*357*203mm	
Weight		≤28KG	

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, ...

