

5G Wide Band RF Repeater

Model: TS50A30A

The RF Repeater is designed to provide a more cost-effective solution than adding a new Base Transceiver Station (BTS) to improve signal coverage and communication quality. 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 receives the low-power signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Coverage Antenna to the weak/blind coverage area. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.



Features

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corroding
- Low interference to BTS by adopting linear amplifier with high gain and low noise
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink
- RJ45 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 or LAN

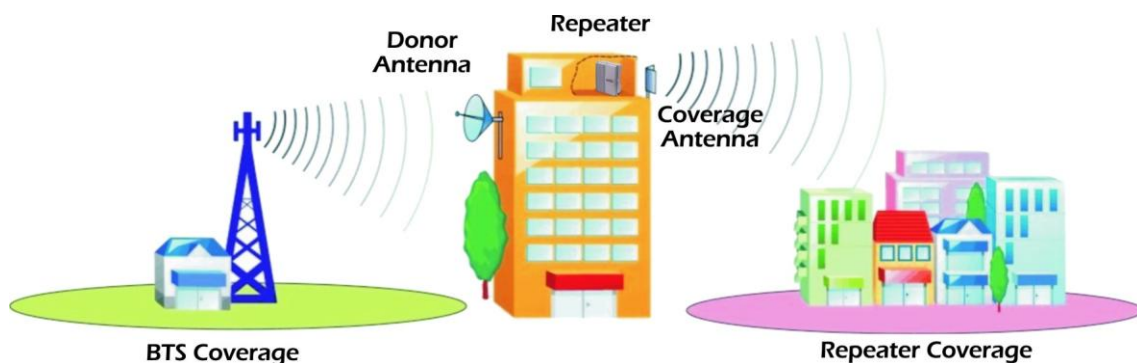
Applications

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, ...

Application Diagram





Tone Spread
Solutions for Wireless Signal

Technical Specifications

Items		Specifications
System		5G(TDD)
Working Frequency	Uplink	3420~3510MHz
	Downlink	3420~3510MHz
Bandwidth		90MHz
Output Power	Uplink	30±2dBm
	Downlink	30±2dBm
Maximum Gain(UL/DL)		85±3dB
Gain Adjustment Range		0-31dB in Step of 1dB
ALC(Auto Level Control)		Input Level Rise 10dB, Output Power Stay at ±2dB
VSWR		≤ 1.5
Spurious Emission		9kHz~1GHz: ≤ -36dBm 1GHz~12.75GHz: ≤ -30dBm
Maximum Input power(Non-destructive)		0dBm
Noise Figure		≤ 6dB
System Delay		≤ 1.5μSec
I/O Impedance		50Ω
RF Connector		N-Type (Female)
Temperature Range		-25°C ~ + 55°C
Application		Indoor or Outdoor(IP65)
Power Supply		AC220V±10%, 50/60Hz
Dimensions		428*328*175mm
Weight		≤ 15kg
Humidity		≤ 95%
Local Control		Web Browser GUI Local Via RJ-45 Interface or WiFi Hotspot
Remote Mode(Optional)		Wireless Modem(3G/4G), IP Connectivity
NMS Function(Optional)		Real-time Alarm for Door Status, Temperature, Power Supply,VSWR,etc; Remote Control such as Turn On/Off, Increasing/Decreasing Output Power, etc; Real-time Status for UL/DL Gain, Input/Output Power, All Status of Repeater etc;