

## 5G Wide Band RF Repeater

**Model: TS50A30A-2**

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

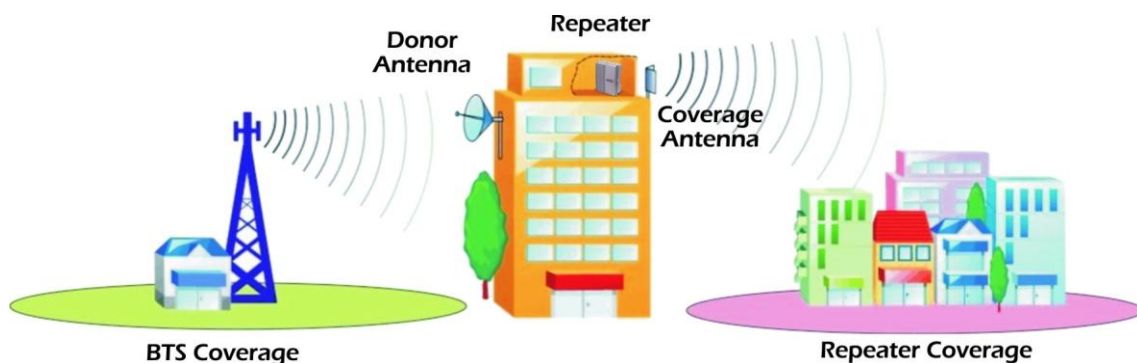
### Applications

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



## Technical Specifications

Items		Specifications
<b>System</b>		5G(TDD)
<b>Working Frequency</b>	<b>Uplink</b>	3340~3420MHz
	<b>Downlink</b>	3340~3420MHz
<b>Bandwidth</b>		80MHz
<b>Output Power</b>	<b>Uplink</b>	30±2dBm
	<b>Downlink</b>	30±2dBm
<b>Maximum Gain(UL/DL)</b>		85±3dB
<b>Gain Adjustment Range</b>		0-31dB in Step of 1dB
<b>ALC(Auto Level Control)</b>		Input Level Rise 10dB, Output Power Stay at ±2dB
<b>VSWR</b>		≤ 1.5
<b>Spurious Emission</b>		9kHz~1GHz: ≤ -36dBm 1GHz~12.75GHz: ≤ -30dBm
<b>Maximum Input power(Non-destructive)</b>		0dBm
<b>Noise Figure</b>		≤ 6dB
<b>System Delay</b>		≤ 1.5μSec
<b>I/O Impedance</b>		50Ω
<b>RF Connector</b>		N-Type (Female)
<b>Temperature Range</b>		-25°C ~ + 55°C
<b>Application</b>		Indoor or Outdoor(IP65)
<b>Power Supply</b>		AC220V±10%, 50/60Hz
<b>Dimensions</b>		428*328*175mm
<b>Weight</b>		≤ 15kg
<b>Humidity</b>		≤ 95%
<b>Local Control</b>		Web Browser GUI Local Via RJ-45 Interface or WiFi Hotspot
<b>Remote Mode(Optional)</b>		Wireless Modem(3G/4G), IP Connectivity
<b>NMS Function(Optional)</b>		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;