

700MHz&900MHz&2100MHz Triple Wide Band RF Repeater

Model: TSLA37A-1

The Triple Band 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 corrosion
- 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

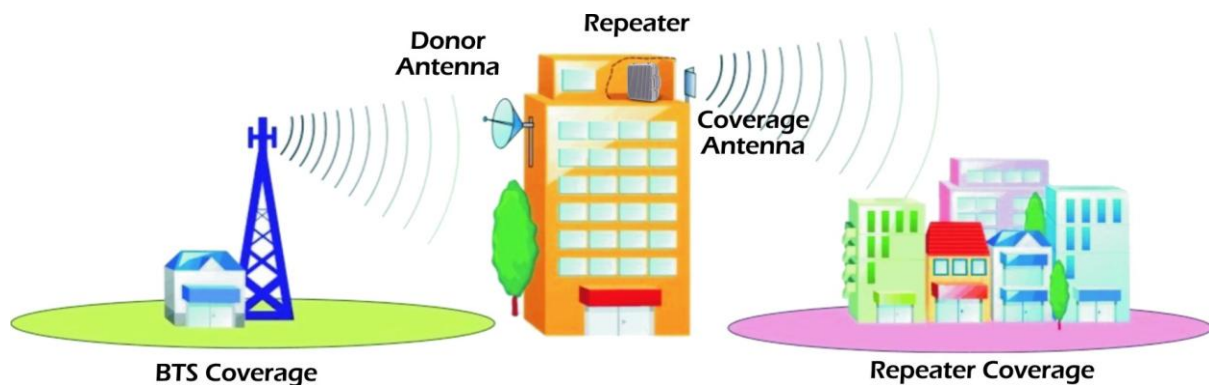
Applications

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 | | |
|---|-----------------|--|------------|--------------|
| System | | LTE700 | LTE900 | UMTS/LTE2100 |
| Frequency Range | Uplink | 703~748MHz | 885~915MHz | 1920~1980MHz |
| | Downlink | 758~803MHz | 930~960MHz | 2110~2170MHz |
| Bandwidth | | 45MHz | 30MHz | 60MHz |
| Output Power | Uplink | 30±2dBm | 30±2dBm | 30±2dBm |
| | Downlink | 33±2dBm | 33±2dBm | 37±2dBm |
| Maximum Gain | | 85±3dB | | |
| Gain Adjustment Range | | 0~31dB @ Step of 1dB | | |
| VSWR | | ≤ 1.5 | | |
| Maximum Input Power(Non-Destructive) | | 0dBm | | |
| Spurious Emission | | 9KHz~1GHz: ≤ -36dBm | | |
| | | 1GHz~12.75GHz: ≤ -30dBm | | |
| Noise Figure | | ≤ 6dB | | |
| System Delay | | ≤ 1.5μs | | |
| I/O Impedance | | 50Ω | | |
| RF Connector | | 2XN-Female | | |
| Power Supply | | AC:100-240V, 50/60Hz | | |
| Dimensions | | 500*440*235mm | | |
| Weight | | ≤45kg | | |
| Operating Temperature | | -25 ~ +55 °C | | |
| Application | | Indoor or Outdoor(IP65) | | |
| Relative Humidity Range | | ≤ 95%(Non Condensing) | | |
| Local Control | | Web Browser GUI Local Via RJ-45 Interface or WiFi Hotspot | | |
| Remote Mode | | Wireless Modem(3G/4G), IP Connectivity | | |
| NMS Function | | 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; | | |