

900MHz&2100MHz Dual Wide Band RF Repeater

Model: TSLA33A

The Dual 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
- USB 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

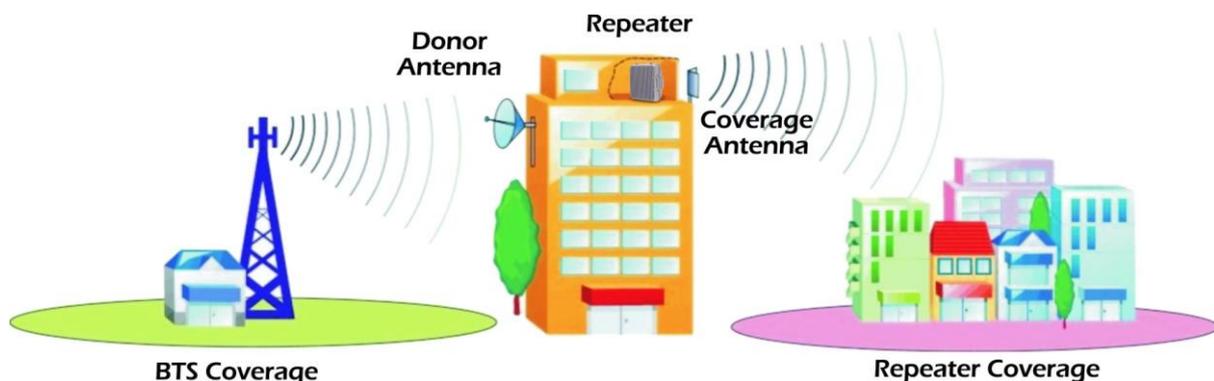
Applications

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		UMTS/LTE900	UMTS/LTE2100
Frequency Range	Uplink	885~915MHz	1920~1980MHz
	Downlink	930~960MHz	2110~2170MHz
Bandwidth		30MHz	60MHz
Output Power	Uplink	30dBm	30dBm
	Downlink	33dBm	33dBm
Maximum Gain		≥85dB	
Manual Gain Adjustment Range		0~31dB @ Step of 1dB	
AGC Range		≥20dB	
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*140mm	
Weight		≤25kg	
Operating Temperature		-25 ~ +55 °C	
Application		Indoor or Outdoor(IP65)	
Relative Humidity Range		≤ 95%(Non Condensing)	
Local Control		Via USB Interface or WiFi Hotspot	
Remote Mode		Cloud Network Management System (Via RJ45 Interface and 4G Wireless Modem)	
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;	