

# LTE1800&LTE2100 Dual Band ICS Repeater



**Tone Spread**  
Solutions for Wireless Signal

Telecommunication Technology & Engineering Accessories

Rev.V1.1

*Model: TSLA37S2*

The Dual Band ICS 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 in dual system. And its easy installation and maintenance can help carriers 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

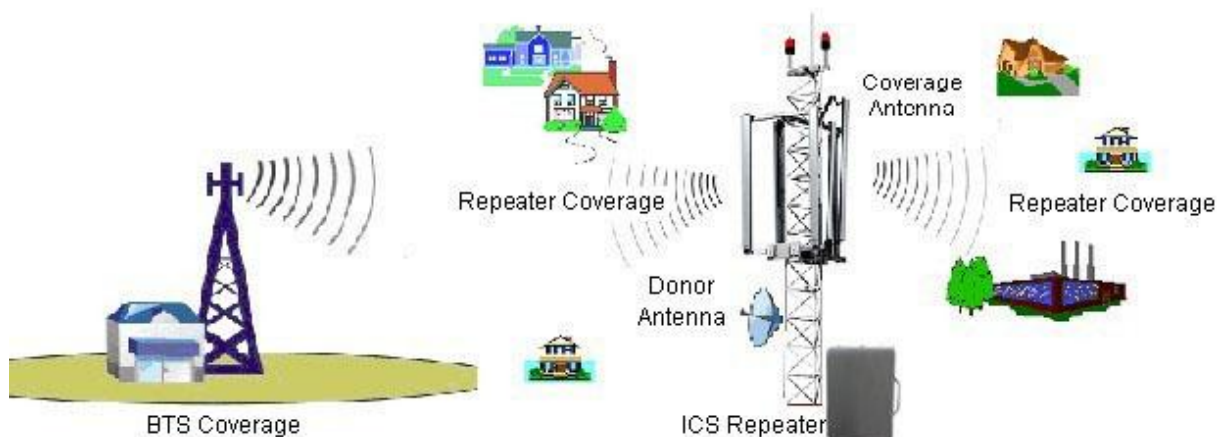
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corroding
- Real Time Interference Signal Cancellation (Multi-path Fading, Feed-Back signal)
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink
- USB port 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 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, ...

## Application Diagram



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## Technical Specifications

Items		Specifications	
System		LTE1800	LTE2100
Frequency Range	Uplink	1710MHz~ 1775MHz	1920MHz~ 1980MHz
	Downlink	1805MHz ~1870MHz	2110MHz ~2170MHz
No. of Channels		Any 1 Carrier Within 65MHz(1x18.7MHz)	Any 1 Carrier Within 60MHz(1x18.7MHz)
Maximum Output Power (Customized)	Uplink	30±2dBm	
	Downlink	37±2dBm	
Maximum Gain		95±3dB	
Gain Adjustment Range		1~31 dB@ Step of 1 dB	
Operating Maximum Gain		≥ Antenna Isolation + 15dB	
Interference Cancellation Range		≥ 25dB	
In-band Ripple		≤±2dB	
ALC		≤2dB(When The Maximum Output Power of Repeater is Reached, Increase Input Power by 1~20dbm, Output Variation ≤2dB)	
EVM		≤8%	
VSWR		≤ 1.5	
Noise Figure		≤ 8dB	
Maximum Input Power (Non-Destructive)		-10dBm	
System Delay		≤ 8.0μSec	
I/O Impedance		50Ω	
RF Connector		2xN-Female	
Temperature Range		Operation: -25°C ~ + 55°C / Storage: -30°C ~ +60°C	
Relative Humidity Range		≤ 95% (Non Condensing)	
Application		Indoor or Outdoor(IP65)	
Dimensions		428mm X 328mm X 175mm	
Weight		≤ 15Kg	
Power Supply		AC110~220V,50/60Hz	
Local Control		Via USB Interface and WiFi Hotspot	
Remote Mode(Optional)		4G Wireless Modem(Cloud Network Management System)	
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,	

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etc;  
Real-time Status for UL/DL Gain, Input/Output Power, All Status of Repeater etc;