

LTE900 ICS Repeater

Model:TSLA30S1-1

The 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 Mobile 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

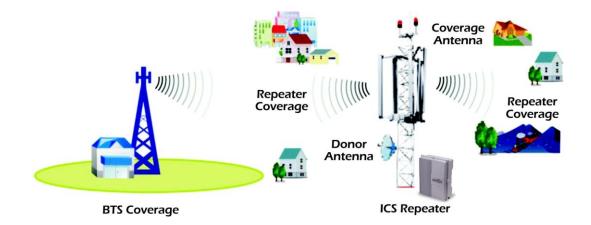
- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion
- Real Time Interference Signal Cancellation (Multi-path Fading, Feed-Back signal)
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink
- RJ45 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 BTS signal is weak or unavailable.

Outdoor: Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, ...

Application Diagram





Technical Specifications

Items		Specifications
System		LTE900
Frequency Range	Uplink	885-895 MHz
	Downlink	930-940 MHz
Number of Channels		1(10MHz per Channel)
Composite RF Output Power	Uplink	27±2dBm
	Downlink	30±2dBm
Maximum Gain		90±3dB
Gain Adjustment Range		1-31dB @ Step of 1dB
VSWR		≤ 1.5
In-Band Ripple		≤±2dB
Group Delay		≤ 5us
Interference Signal Cancellation Capacity		≥30dB(Antenna Isolation +15dB)
Interference Signal Detecting Range		≤ 7.0µs
(Direct & Multi-path Feedback)		
Maximum Input Power (Non-Destructive)		-10dBm
Spurious Emission		9kHz~1GHz: ≤ -36dBm
		1GHz~12.75GHz: ≤ -30dBm
EVM		≤ 8%
Noise Figure		≤ 5dB
I/O Impedance		50Ω
RF Connector		N-Female
Temperature Range		Operation: -20°C ~ + 55°C
Relative Humidity Range		≤ 95% (Non Condensing)
Application		Indoor or Outdoor(IP65)
Dimensions		428mm X 328mm X 175mm
Weight		≤ 15Kg
LED Indicator		Power Supply, Alarm, Running
Power Supply		DC24(Solar Panel)
Power Consumption		≤ 100W
Local Control		Web Browser GUI Local Via RJ-45 Interface or WiFi Hotspot



Remote Mode(Optional)	Wireless Modem(3G/4G), IP Connectivity
	Real-time Alarm for Door Status, Temperature, Power
	Supply,VSWR,etc;
NMS Function(Optional)	Remote Control such as Turn On/Off, Increasing/Decreasing
Nino i unction(optional)	Output Power, etc;
	Real-time Status for UL/DL Gain, Input/Output Power, All Status of
	Repeater etc;