

LTE900 ICS Pico Repeater

Model: TSLA20S1-1

The Pico Repeater provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. 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

- Two signal ports with full duplex design
- Real Time Interference Signal Cancellation (Multi-path Fading, Feed-Back signal) greatly reduces system isolation requirement
- Auto Isolation check between service and donor antennas
- Linear power amplification to effectively suppress inter-modulation and spurious emission
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously

Applications

To expand signal coverage or fill signal blind area where BTS signal is weak or unavailable.

Indoor: Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...

Application Diagram



Technical Specifications

| Items | | Specifications |
|------------------------------------|-----------------|---|
| System | | LTE900 |
| Working Frequency | Uplink | 885-895 MHz |
| | Downlink | 930-940 MHz |
| Number of Channel | | 1(10MHz per Channel) |
| Max. Gain | | 75±3dB |
| Maximum Output Power | Uplink | 17±2dBm |
| | Downlink | 20±2dBm |
| Gain Control Range | | 30dB (1dB Step) |
| ICS Function | | Support |
| Interference Cancellation | | 30dB(Antenna Isolation + 15dB) |
| Spurious Emission | | 9kHz~1GHz: ≤ -36dBm 1GHz~12.75GHz: ≤ -30dBm |
| VSWR | | ≤ 2.0 |
| EVM | | ≤ 8% |
| Noise Figure | | ≤ 6dB |
| Power Consumption | | ≤ 30W |
| Impedance | | 50Ω |
| Connector Type | | N Female |
| Application | | Indoor(IP40) |
| Mounting | | Wall Mount |
| Power Supply | | DC9V |
| Dimensions | | 318*265*68mm |
| Weight | | ≤ 6Kg |
| Operating Temperature Range | | -10 °C ~ 55 °C |
| Humidity | | 5% ~ 95% |
| Local Control | | USB+PC |
| NMS Mode(Optional) | | Wireless Modem(via SMS) |
| NMS Function(Optional) | | Power Supply, Output Power, Gain, Uplink/Downlink ATT etc |