

LTE700 ICS Pico Repeater

Model: TSLA20S1

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		LTE700
Working Frequency	Uplink	728-748 MHz
	Downlink	783-803 MHz
Number of Channel		1(20MHz 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