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## FDD LTE ICS Pico Repeater From <http://www.jammerbooster.com/>

|          |                      |
|----------|----------------------|
| MODEL:   | KR-1370LI            |
| SIZE:    | 151mm X 151mm X 26mm |
| PACKAGE: | Neutral packing      |

FDD LTE ICS Pico Repeater, Digital Signal Booster

**Model: VR-1370LI**

### Introductions:

The FDDLTE ICS PICO 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 FDD LTE 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 Built-in Donor Antenna, linearly amplifies the signal and then retransmits it via the Built-in Coverage Antenna to the weak/blind coverage area. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

### Significant Features:

- I Plug-and-Play
- I Built-in Donor and Service Antennas (Gain: 5dBi)
- I Channel Selective
- I Up Link Mute
- I 30dB Adaptive Echo Interference Cancellation
- I 85dB Gain(External Donor Antenna) with Cognitive Auto Power Level Control

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I Channel-based Power/Gain Configuration and Control

## Advantages:

- I Low Power Consumption
- I Light Weight
- I No Fan inside
- I High System Gain
- I Small Dimension
- I Directly plug external antenna in MS or BS antenna port and build-in antenna will be disable
- I Cost Effective

## Applications:

No professional configuration required but just Plug and Play, This FDD LTE ICS Pico Repeater is a quick solution to extend FDD LTE signal coverage to small and medium size indoor environment such as houses, hotels, hot spots, shops, offices, meeting rooms, apartments, and so on. 30dB Adaptive Echo Interference Cancellation with Cognitive Auto Power Level Control makes this Pico ICS Repeater able to adapt to the time-variant isolation environment and further provides the optimized signal coverage all the time.

## Technical Specifications

| Item System                  |                                | Specification  |
|------------------------------|--------------------------------|--|
| Frequency Range (Customized) | Uplink (MHz)<br>Downlink (MHz) | LTE2100/LTE1800<br>Compliant to 3GPP Band Definition(customized by re<br>Compliant to 3GPP Band Definition(customized by re                          |
| UL/DL Total Output Power     |                                | <sup>3</sup> 13dBm (without built-in antenna gain)<br><br><sup>3</sup> 18dBm (built-in antenna gain added)<br><br>Independently Settable Per Channel |

|   |                               |  |
|---|-------------------------------|--|
| <b>Supported Bandwidth</b>              | <b>Uplink Downlink</b>        | 5MHz, 10MHz, 15MHz, 20MHz Programmable in 20MHz<br>5MHz, 10MHz, 15MHz, 20MHz Programmable in 20MHz |
| <b>Max. Gain</b>                        | <b>External Donor Antenna</b> | 85dB, Independently Settable Per Channel   |
|   | <b>Build-in Donor Antenna</b> | 70dB, Independently Settable Per Channel   |
| <b>AGC Control Range</b>                |                               | 30dB, Independently Working Per Channel  |
| <b>Gain Control Range</b>               |                               | 30dB (0.5dB/Step), Independently Settable Per Channel  |
| <b>Out of Band Gain</b>                 |                               | 3GPP TS 36.106   |
| <b>Gain Flatness</b>                    |                               | ? 3dB(Peak-to-Peak)  |
| <b>Error Vector Magnitude(EVM)</b>      |                               | ? 10% (PCDE ? -35dB)   |
| <b>Interference Cancellation</b>        |                               | 30dB   |
| <b>Spurious Emissions</b>               |                               | 3GPP TS 25.106   |
| <b>Input/ Output Inter-modulation</b>   |                               | 3GPP TS 25.106   |
| <b>Adjacent Channel Rejection Ratio</b> |                               | 3GPP TS 25.106   |
| <b>Noise Figure</b>                     |                               | ? 6dB (@Max. Gain)   |
| <b>Group Delay</b>                      |                               | ?6µs   |
| <b>Operating Temperature Range</b>      |                               | -30°C~ +55°C   |
| <b>Relative Humidity</b>                |                               | 95%  |
| <b>Power Supply</b>                     |                               | 90~240ACV, 50/60Hz   |
| <b>Power Consumption</b>                |                               | ? 10W  |
| <b>Standard Compliance</b>              |                               | 3GPP TS 25.143?EN 60950?ETSI EN 301 489-1?ETSI EN  |
| <b>VSWR</b>                             |                               | VSWR ? 1.5   |
| <b>RF Connector</b>                     |                               | SMA Female(Switch) for External Antenna Extension  |
| <b>PC Control Interface</b>             |                               | USB  |
| <b>LED Indicator</b>                    |                               | Input RSSI, AGC Alarm, Isolation Alarm, Power On, Sleep, etc.                                      |
| <b>Dimensions</b>                       |                               | 189mm x 170mm x 80mm   |
| <b>Weight</b>                           |                               | <1.2KG   |







