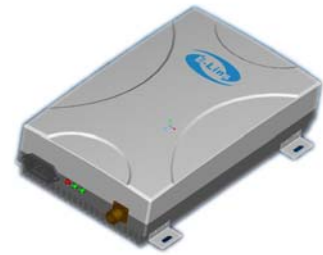


MR100 Series Mini Repeater Datasheet

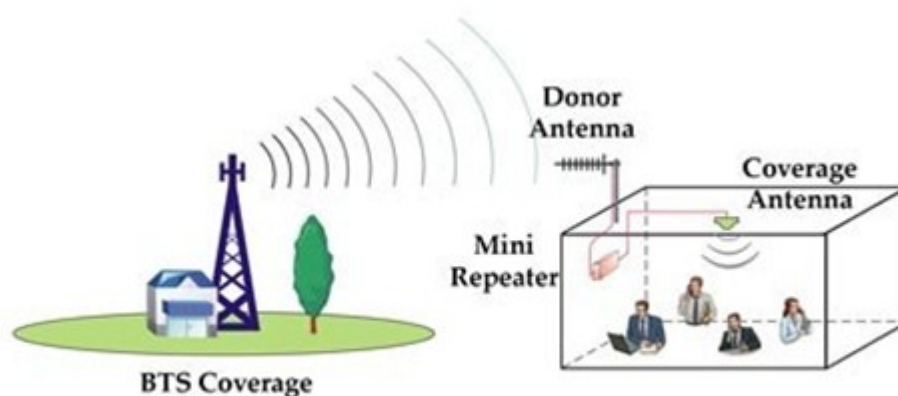


>>| Distinguishing Features

- Support for GSM networks (GSM+EGSM) - 880-960 MHz;
- Compliance with ETSI 300 609-4 required for this kind of devices;
- AGC (ALC) - automatic gain/level control;
- MGC - manual gain control (attenuator);
- Gain suitable for the coverage area;
- Indoor coverage area up to 300 m² ~ 1500 m²
- Easy installation (Plug and Play);

>>| Advantages:

- High-gain linear power amplifier
- ALC technology
- Ultra-low noise receive amplifier
- There is no interference to the base station,
After the opening the original system and the base station without the need to adjust parameters ,
- Stable and reliable electromagnetic compatibility design
- The base station dose not cause an increase in background noise,
but will not lead to a decline in the quality of the base station communications
- With full-duplex communication mode



Application Diagram of Mini Repeater

>>| Typical Applications

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








- Small blind area or weak-signal area, e.g. underground or semi-underground rooms, small basements, underground parking lots;
- Small zones with hot traffic: meeting rooms, supermarkets, offices, pubs, coffee shops, gyms, etc.;
- Elevators (especially when cabling in the elevator shaft is difficult);
- Private homes or villas at outskirts with bad signal coverage.

>>| Specification

Notes: for references only, customized products will be with different parameters according to requirement.

MR100 Series	
Operating bands [MHz]	880-915 925-960 GSM+EGSM
Output power [dBm]	10, or 15, or 20
Gain [dB]	60/60, or 65/65, or 70/70
Max group delay [μs]	0.5
Input attenuation (adj. manually) [dB]	0-31 (step 1)
AGC range [dB]	up to 20
Indoor coverage area [m2]	up to 300, or 500, or 1200,
Impedance [Ω]	up to 300
Certificates	CE, (ETSI 300 609 -4), RoHS
Dimensions [mm]	
Antenna connectors (for outdoor/indoor antenna)	N-f/N-f

Accessories Included

<p>Mounting Brackets Use the brackets to mount the mini repeater onto a wall</p>	
<p>AC/DC Adaptor Use the AC/DC adaptor to give power supply to the mini repeater</p>	
<p>User Manual The user manual gives you a complete guide for the installation, operation and troubleshooting of the mini repeater.</p>	
<p>Accessories for optional</p>	
<p>Jumper Cable Use the jumper cables to connect the mini repeater to the Donor Antenna and the Coverage Antenna.</p>	
<p>Donor Antenna (Yagi antenna) The Donor Antenna is used to pick up wireless signal from the BTS. It connects to mini repeater via a jumper cable. Usually it is installed outdoors (e.g. on the roof) to get better signal.</p>	
<p>Coverage Antenna (Ceiling-Mount Omni antenna) The Coverage Antenna helps to transmit the amplified signal to the area to be covered. A jumper cable is also required to connect it to the mini repeater.</p>	
<p>Cable Tie Use the cable ties to fix the jumper cables.</p>	

Waterproof Tape

Wrap the waterproof tape over the joint of RF connectors to give protection against rain and humidity.



Electrical Tape

Wrap the electrical tape over the joint of RF connectors to give protection against rain and humidity.

