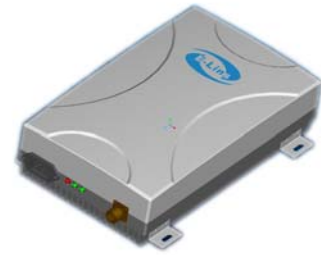


## MR200 Series Mini Repeater Datasheet

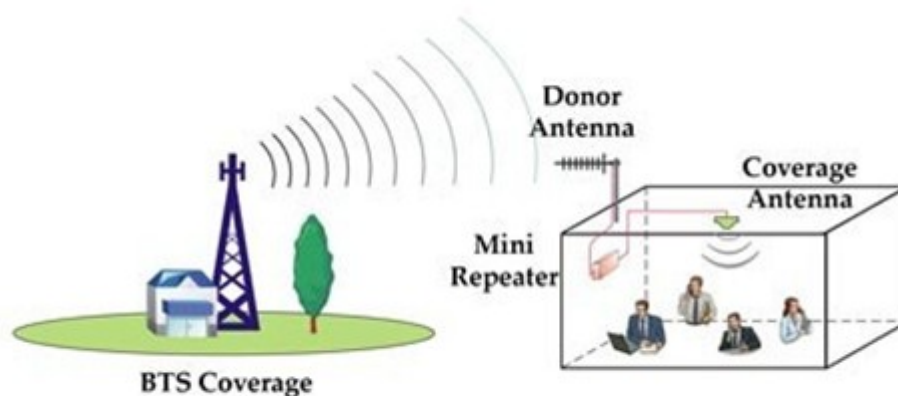


### >>| Features

- High linearity power amplifier, stability performance
- Sensitive antrum frequency filtration
- AGC (ALC) - automatic gain/level control;
- MGC - manual gain control (attenuator);
- Gain suitable for the coverage area;
- Remote Monitor for gain, power, power supply, key secure and temperature
- Power protection system, high isolation between downlink&uplink directions
- Modularization, mini-design, tightness structure, dust, water, fog shock resistance
- 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.**



MR200 Series	
<b>Operating bands [MHz]</b>	Uplink 909~915MHz    Downlink 954~960MHz (Uplink 885~909MHz    Downlink 930~954MHz)
<b>Bandwidth</b>	6MHz(24MHz)
<b>Output power [dBm]</b>	17dBm(10-17dBm Optional)
<b>Max Input Voltage</b>	-45 dBm max
<b>Gain [dB]</b>	70dB±2dB(55dB±2dB)
<b>Band Flatness</b>	≤±2dB
<b>Out band Rejection(min)</b>	25dB@400KHz , 45dB@600KHz , 50dB@1MHz
<b>IP3</b>	≥34dBm
<b>Max group delay [ μs]</b>	0.5
<b>Input attenuation (adj. manually) [dB]</b>	0-31 (step 1)
<b>AGC range [dB]</b>	≥20dB
<b>Noise Figure</b>	≤6.5dB




<b>Spurious Emission</b>	$\leq -36$ dBm(9KHz~1GHz) $\leq -30$ dBm(1GHz~12GHz)
<b>Input/Output VSWR</b>	$\leq -13$ dB
<b>Indoor coverage area [m2]</b>	up to 300, or 500, or 1200, or Customized
<b>Certificates</b>	CE, (ETSI 300 609 -4), RoHS
<b>DC Power</b>	9V , 830mA
<b>Antenna connectors (for outdoor/indoor antenna)</b>	50Ω(N-F)

## Accessories Included

<p><b>Mounting Brackets</b></p> <p>Use the brackets to mount the mini repeater onto a wall</p>	
<p><b>AC/DC Adaptor</b></p> <p>Use the AC/DC adaptor to give power supply to the mini repeater</p>	
<p><b>User Manual</b></p> <p>The user manual gives you a complete guide for the installation, operation and troubleshooting of the mini repeater.</p>	

## Accessories for optional

<p><b>Jumper Cable</b></p> <p>Use the jumper cables to connect the mini repeater to the Donor Antenna and the Coverage Antenna.</p>	
<p><b>Donor Antenna (Yagi antenna)</b></p> <p>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><b>Coverage Antenna (Ceiling-Mount Omni antenna)</b></p> <p>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><b>Cable Tie</b></p> <p>Use the cable ties to fix the jumper cables.</p>	
<p><b>Waterproof Tape</b></p> <p>Wrap the waterproof tape over the joint of RF connectors to give protection against rain and humidity.</p>	
<p><b>Electrical Tape</b></p> <p>Wrap the electrical tape over the joint of RF connectors to give protection against rain and humidity.</p>	