

### GSM 中继放大器规格书

### GSM Pico Repeater Amplifier Specification

(Model: RA-880-960-18-65)

指标项目 Items		技术指标 Technical	
		Uplink	Downlink
频率 Frequency Range		880-915 MHz	937.8-960 MHz
最大增益 Max. Gain		≥ 65dB	≥ 65 dB
输出功率 Output Power		≥ 15 dBm	≥ 18 dBm
带内波动 Ripple In band		≤ 4dB	
Max. Input Power without Damage		0 dBm	
互调 Intermodulation Products	9kHz -1GHz	≤ -36 dBm	≤ -36 dBm
	1GHz -12.75GHz	≤ -30 dBm	≤ -30 dBm
杂散发射 Spurious Emission	9kHz -1GHz	≤ -36 dBm	≤ -36 dBm
	1GHz -12.75GHz	≤ -30 dBm	≤ -30 dBm
噪声 Noise Figure @ Max. Gain		≤ 5.0μSec	
驻波比 VSWR		≤ 2	
系统延迟 System Delay		≤ 5μs	
工作时间 MTBF		> 50,000 hours	
功率电压 Power Supply		AC: 230V 50/60Hz to DC: 5V	
Power Consumption		< 7W	
阻抗 I/O Impedance		50 Ω	
LED 指示 Indication LED		Power, Running Status, & Failure Status	
接头类型 RF Connector		N-Female / N-Female	
保护级别 Casing Level		IP40	
温度范围 Operating Temperature		-10 ~ +50 °C	
Relative Humidity		< 90%	
尺寸 Dimensions		140mm x 110mm x 37mm	
重量 Weight		1 kg	



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

It is mainly deployed for small points of in-building wireless signal coverage, when installation of standard repeaters will generate great interference to the wireless network or the area to be covered is widely distributed. And it is designed for easy installation and maintenance.

The Pico Repeater works as a relay between the BTS and mobiles. It picks up the strongest signal from the 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

- Supports GSM network (GSM + EGSM): 880-960MHz;
- Compliant with ETSI 300 609-4 standard required for this kind of devices;
- Smart Automatic Gain/Level Control (AGC/ALC) ensures output level stable and adjustable continuously;
- Supports Manual Gain Control (MGC);
- Indoor coverage area up to 1200 m<sup>2</sup>;
- Easy installation (Plug and Play).

## APPLICATION

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...
- Elevators (especially when cabling in the elevator shaft is difficult);
- Private homes or villas at outskirts with bad signal coverage.

