

### DCS 中继放大器规格书

#### DCS Pico Repeater Amplifier Specification

(Model: RA-1710-1855-50-70)

指标项目 Items		技术指标 Technical
频率 Frequency Range	Uplink	1710~1760MHz(Upward wide band )
	Downlink	1805~1855MHz(Downward belt band switch)
增益 Gain		≥ 70dB
输出功率 Output Power		50dBm
带内波动 In-band Ripple		≤ 4dB
带外抑制 Out-of-Band Suppression	9KHz~1GHz	≤ -36dBm @ 3KHz
	1GHz~12.75GHz	≤ -30dBm @ 3KHz
噪声 Noise Figure		≤ 5dB
互调衰减 Intermodulation Attenuation (when rated output power = 13dBm)	9KHz~1GHz	≤ -36dBm @ 3KHz
	1GHz~12.75GHz	≤ -30dBm @ 3KHz
带外抑制 Outband Rejection		frequency space between -3dB point and -36dBc:750KHz
系统延迟 System Delay		≤ 5μs
LED指示 Indication LED		Power supply, Alarm, state
报警监控系统 Alarm Monitoring System		Alarm for uplink self-oscillation
阻抗 I/O Impedance		50 Ω
接头类型 RF Connector		N-Female / N-Female
温度范围 Operating Temperature		-10 ~ +50 °C
功率电压 Power Supply		AC: 110-230V 50/60Hz to DC +5V
尺寸 Dimensions		140*110*37(mm)
重量 Weight		<1kg



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 DCS network: 1710-1880MHz;
- 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;
- Indoor coverage area up to 500 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. in the ground 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

