

In-building Wireless Repeaters

850 MHz Cellular and 1900 MHz PCS



ADC's new in-building repeater product line offers powerful and cost-effective solutions to enhance indoor coverage for small to medium-size enterprise venues. This simple-to-use device is optimal for augmenting RF coverage in offices buildings, retail stores, warehouses, and other facilities between 50,000 to 100,000 square feet. The repeater features a compact design, blends easily into any facility, and is easy to set up through a simple GUI interface. The device offers the flexibility to program band selection and optimizes alarm and performance settings as desired. The repeater may also be used in conjunction with a distributed antenna system (DAS).

Benefits:

- Low maintenance RF repeater system - set it and forget about it
- Band selectivity for Cellular & PCS
 - Choose either a 5MHz block, a 15MHz block or any combination of a 5 & 15MHz block: A, D, B, E, F and C
 - Choose either Cellular A, A', A'' or B and B'
- Excellent selectivity, each band has discrete IF SAW filters to mitigate interference
- Easy installation
- User-friendly GUI interface
- Provides product performance status via LED lights & optional enhanced alarm and management through on-board modem

SPEC SHEET



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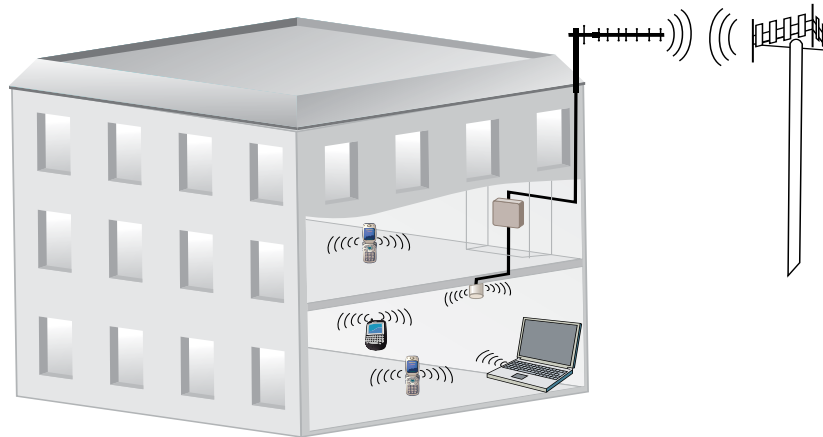
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System Description

The repeater transmits RF in both directions to provide indoor wireless coverage. The device is connected via coax to a donor antenna that is typically located on a rooftop or external wall of a building, directed at the donor cell-site. The repeater is mounting inside the building and distributes the RF over coax to an indoor antenna located in the desired coverage area.

Typical Installation



7107 • 105105AE In-building Wireless Repeaters

GUI Features

Automatic Level Control (ALC)

The system will control the output power to maintain the stability and protect the unit.

Sleep Mode

Mode is activated when the reverse output RF power shows below -65dBm for over 3 minutes. The system re-activates to the wake up mode if the signal reaches over -65dBm.

Band Selection

The BDA offers programmable band selection.

Isolation Check

There is isolation check for the forward path and reverse path when the system is set up and powered on.

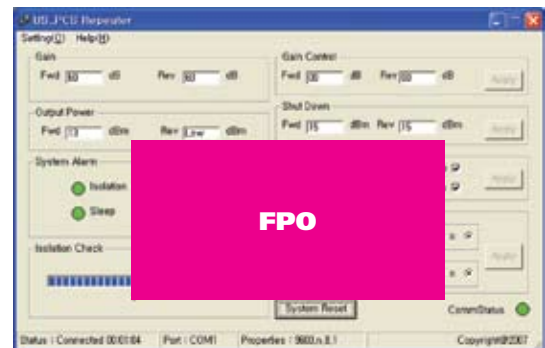
User-friendly Interface

USB connection allows you to control;

- sleep mode
- band selection
- on/off system controls

Over Power Shut Down

The system can detect if there is excessive power and will shut down to protect the unit and will automatically resume operation when normal power levels are reached.





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Typical Specifications

RF SPECIFICATION

Operating Frequency for the 1900 MHz

Down Link:	1930-1990 MHz
Up Link:	1850-1910 MHz
	5MHz, 15MHz, or a combination of a 5 & 15MHz selectable

Operating Frequency for the 850 MHz

Down Link:	869-894 MHz
Up Link:	824-849 MHz
	A, A', A'' OR B, B' selectable

Output Power:

+13dBm

Gain:

60dB

Flatness:

+0dB, -4dB Full Band

Out of Band Gain:

45dB Offset 1MHz

35dB Offset 5MHz

NOISE FIGURE

Up Link: 5dB max

VSWR: 1.5 max

Frequency Stability: ±0.05ppM max

ALC: 20dB min

Gain Control Range: 10dB min

1dB Step

ACPR

CDMA 10FA: 45dBc @ 885KHz

50dBc @ 1.98MHz

Delay: 5usec max

Supply Voltage: 8 V

AC 110~220V to DC 8V SMPS Adaptor

Current Consumption:

3A max

DC 8V Current Consumption

ENVIRONMENTAL

Operating Temperature: -5°C ~ +45°C

Humidity: 85%

INDICATORS/CONTROLS

USB Port: Gain, ALC Level Setting, Alarm

Sleep Mode: Up Link non signal (below-65dBm): Off

Input over -65dBm: On (in 1 sec)

Oscillation Check: Observation Down Link

LED: Shut Down +16dBm

Sleep Mode: (U/L, D/L)

Shutdown: (U/L, D/L)

Oscillation: (D/L)

Power

ALC On/Off: Setting from GUI

RF Connector: N Type (Donor ANT): Service ANT: SMA

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Website: www.adc.com

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