

# InterReach® Wireless Repeaters

Mobile TV In-Building Repeater



ADC's new Mobile TV forward link only (FLO) wireless repeater is a cost-effective solution to enhance indoor coverage for small to medium-size environments. These simple-to-use devices are optimal for augmenting mobile TV service coverage in small indoor facilities such as retail stores. These repeaters feature a compact design, blend easily into any facility, and are easy to set up through a simple GUI interface.

## Benefits:

- Easy installation
- User-friendly GUI interface includes gain adjustment, system test and calibration features
- Excellent selectivity — IF SAW filters to mitigate interference
- Provides product performance status via LED lights
- Low maintenance RF repeater system — 'set it and forget about it'

SPEC SHEET



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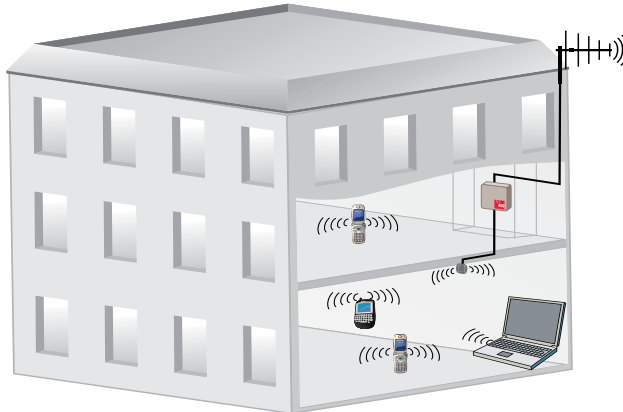
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## Mobile TV In-Building Repeater

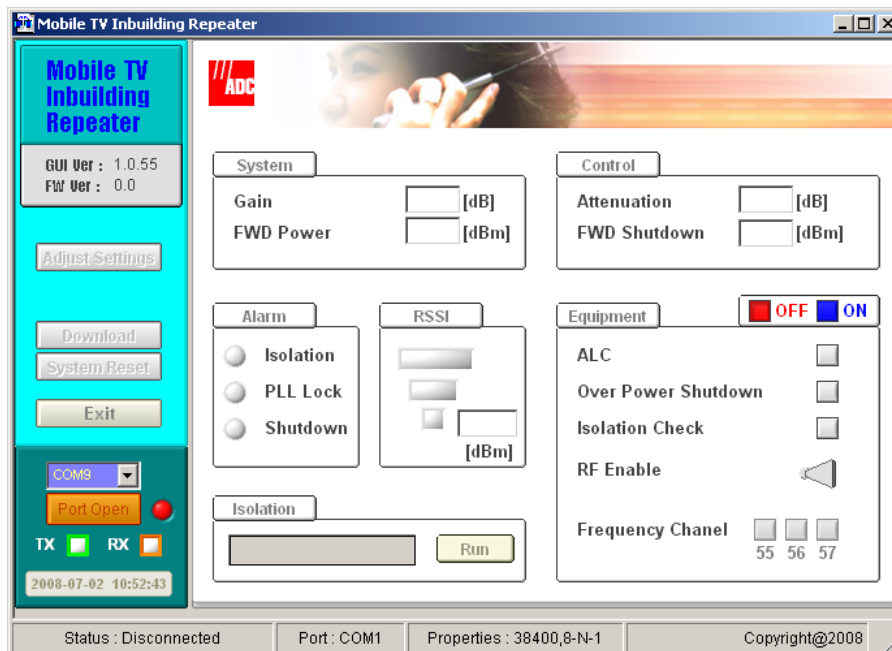
### System Description

The repeater transmits RF in the forward path to provide indoor wireless coverage. The repeater 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 site. The repeaters are mounted inside the building and distributes the RF over coax to a service antenna located in the desired coverage area.

### Typical Installations



### Set-up, Alarm and Management



8 / 0 8 • 1 0 6 2 9 0 A E InterReach® Wireless Repeaters



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### GUI Features

#### Automatic Level Control (ALC)

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

#### RSSI Indicator

Optimize and ease donor antenna placement during installation.

#### Isolation Check

The device offers an isolation check configurable in the GUI when the system is set up and powered on.

#### User-friendly Interface

USB connection allows you to control:

- adjust gain
- perform system test and calibration

#### Over Power Shut Down

The system can detect excessive power and will shut down after 5 seconds to protect the unit. Recheck occurs after 5 minutes and the system will automatically resume operation when normal power levels are reached.

## Typical Specifications

### RF SPECIFICATION

#### Operating Frequency for the 700 MHz

6 MHz channel selective

#### Down Link:

716-722 MHz (ch 55), 722-728 (ch 56), 728-734 (ch 57)

#### Output Power:

+13 dBm

#### Gain:

80 dB

#### Flatness:

±2 dB Full Band

#### Out of Band Gain:

65 dB Offset 1 MHz; 55 dB Offset 5 MHz

### NOISE FIGURE

#### Up Link:

5 dB max

#### VSWR:

1.5 max

#### Frequency Stability:

±0.05 ppm max

#### ALC:

20 dB min

#### Gain Control Range:

30 dB min; .5 dB Step

#### Delay:

5 usec max

#### Supply Voltage:

6 V

AC 110~220V to DC 6V SMPS Adaptor

#### Current Consumption:

3A max

DC 6V Current Consumption

### ENVIRONMENTAL

#### Operating Temperature:

-5°C ~ +40°C

#### Humidity

85%

### INDICATORS/CONTROLS

#### USB Port:

Gain, system test, calibration

#### LED:

##### TX Shutdown:

Off (normal operation), red (alarm)

##### Isolation:

Yellow flashing (test), solid yellow (alarm)

##### DC Power:

Green (normal operation)

##### RSSI Indicator:

Thresholds measured at donor port

No LED <-105 dBm input

1 LED >-105 dBm input

2 LED >-95 dBm input

3 LED >-85 dBm input

### PHYSICAL

#### Donor Antenna:

N Type Female

#### Service Antenna:

N Type Female

#### Dimensions (WxHxD):

150x200x67 mm (5.9x7.8x2.6 in.) including wall mount bracket

#### Weight:

1.79 kg (3.95 lbs.)

#### Mounting or Installation:

Wall mount

## Ordering Information

Description	Catalog Number
<b>Mobile TV FLO Repeater;</b> 700 MHz Ch 55, 56, or 57, 13 dBm, 80 dB gain and accessory kit. Accessories include: A to A USB cable, mounting plate, 6V power supply, software and user doc.	RPT-MAAAA11000

Donor antennas, service antennas, coax and other accessory materials are also available from ADC.

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### Website: [www.adc.com](http://www.adc.com)

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