ADC In-Building 850 and 1900 MHz Wireless Repeater - User Manual Addendum

PRODUCT DESCRIPTION

This publication provides basic information about the ADC In-Building 850 and 1900 MHz Wireless Repeater. Place this addendum with ADCP-75-237.

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

Wireless Repeater Nominal Specifications:

PARAMETER	SPECIFICATION	REMARKS
System bandwidth	15 + 5 MHz - PCS A or B Band - Cellular	
Frequency range (TX)	1930 – 1990 MHz - PCS 869 – 894 MHz - Cellular	
Out-of-band emissions	-13 dBm per 1 MHz bandwidth from 30 MHz to 20 GHz	
Passband Gain	60.0 dB	
Composite RF Output power (see Note 1 at end of table)	+13 dBm (20.0 mWatts) at antenna port	
Gain variation	± 3 dB over temp and unit-to-unit	
Gain flatness Band flatness Channel flatness	 ± 1.5 dB across freq. range ± 1.0 dB across any 1.25 MHz channel	
Mounting	Wall mounted	
Operating Temperature	-5° C to +45° C	
Antenna Connector	50 ohm N-Type (Female) 50 ohm SMA-Type (Female)	50 ohm impedance
Voltage Input	100-240 VAC, 47-63 Hz	

Note 1: Per Industry Canada Section 5.3 - The Manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device."

STANDARDS CERTIFICATION

FCC: This equipment complies with the applicable sections of Title 47 CFR Part 22 (850 MHz Cellular and Part 24 (1900 MHz PCS).

IC: This equipment complies with the applicable sections of RSS-131. The term "IC:" before the radio certification number only signifies that Industry Canada Technical Specifications were met.

Caution: Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: To comply with Maximum Permissible Exposure (MPE) requirements, antennas must be installed to provide at least 20 centimeters of separation from all persons per FCC 47CFR, Part 2.1091 and IC RSS-102, Section 2.5.2.