

## Warranty Return Card for ERS Active Cell Antenna (ACA)s

Dear Customer:

This ACA is warranted to be free from defects in materials and workmanship during its useful lifetime. In the event it proves to be defective, please complete this form and return it, along with the defective ACA, to Electronic Retailing Systems International, Inc..

ERS values your comments, and will use the information you provide to continuously improve our products and services. Thank you for your cooperation.

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date of Installation: \_\_\_\_\_

Name : \_\_\_\_\_

Address : \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Area Code/Phone Number : \_\_\_\_\_

Description of Problem : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### ACTIVE CELL ANTENNA

The ACAs physical dimensions are;

**24.5 in. (L) X 13.02in. (W) X 3.31 in. (H)**  
**62.23 cm.(L) X 33.07 cm. (W) X 8.41 cm (H)**

These devices have 2 LED indicators at their outside edge, one red and one green. When lit, the green LED indicator signifies that d-c power is applied.

A single BNC connector is located at the top center of the assembly. Depending on customer requirements, some ACAs are delivered with dust- and moisture-resistant covers. At least 5 inches should be allowed for clearance of the ACA i-f cable.

The ACA requires 15-volt d-c power, which is supplied through the RG-58 i-f cable shield and center conductor. Suitable filtering in the ACA isolates d-c from the radio-frequency signal and the r-f signal from the d-c power bus.



Electronic Retailing Systems International, Inc.  
488 Main Avenue  
Norwalk, CT. 06851-1007

Part Number 957005-BA

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### Active Cell Antenna

SN-ACATR-00



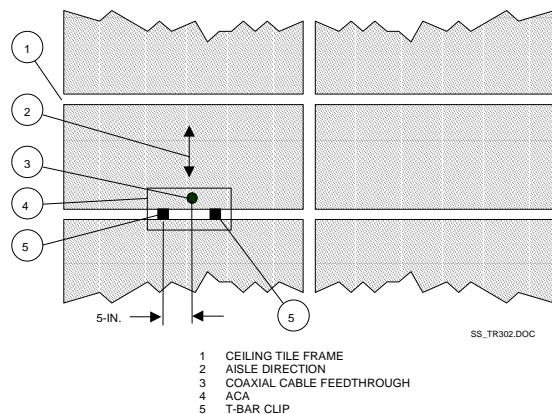
Installation Instruction Guide

## Mounting an ACA:

The optimum mounting height for an ACA is from 12 to 15 feet above the floor. ACAs must always be installed with an unobstructed free area of at least two (2) feet beneath it. **In all cases, the ACA should be at a minimum height of eight (8) feet so long as a minimum of (8) inches separation is maintained between the ACA and any human contact during operation.**

There are two primary methods of mounting an ACA in order to remain within that height range. One is for the suspended ceiling that is constructed of a steel frame with tile inserts and is within the height range. The other is designed for an open ceiling or a suspended ceiling that is higher than 15 feet.

The package your ACA was delivered in has a plastic packet that contains two (2) T-bar clips and two (2) S-hooks. The T-bar clips will snap onto the T-bars of the suspended ceiling (as shown in Figure 1), providing a loop for the S-hook which will attach to the ACA hanging straps.



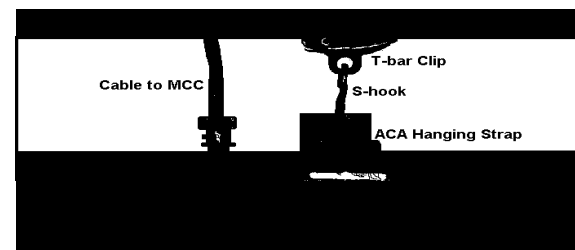
ACA mounting

During installation, check that both ends of all coaxial cables are marked.

Taking aisle direction into account (Figure 1), mark the ceiling-tile frame opposite the place where the coaxial cable feeds through the ceiling tile. Measure 5-inches in both direction on the ceiling frame and snap a T-bar clip in place (5) on the ceiling tile T-bar frame at each measured spot.

Feed one end of an S hook (Figure 1) through one of the T-bar clip eyes and the other end of the same S hook through the ACA bracket eye. Do the same with the second T-bar clip and the other ACA bracket eye.

MCC to ACA cable connections should be made as each ACA is installed.



Make sure that the cable from the MCC does not bind on the hole through the ceiling tiles (item 3 of Figure 1), also make sure that the stress relief on the cable to the MCC does not exert any pressure on the ACA which might disrupt its level position.

You should check the level of the ACA after it is mounted to insure that it is level both parallel with and perpendicular to the aisle.

The antenna being out of level will dramatically affect the RF energy transmission and thereby the efficiency of the entire system.