

## External Magnet Antenna

For use with the Cradle and/or receiver



The external antenna is equipped with a magnet clamp for easy mounting on metallic surfaces. Just plug the antenna to the Cradle or receiver, place the magnet antennae in a location where transmission is most accessible (e.g. on the roof of a truck) and you are ready to go.

Use the external antenna in case where the:

- Cradle or receiver is located in metal chambers (like refrigerators)
- Cradle or receiver is located indoors for protection from harsh environmental conditions and rain

The external antenna is designed for 914MHz and 433MHz carriers

The antenna adds a 1-3dB gain to the Transmitter-Receiver path. With the use of an external antenna on both Cradle and receiver we manage to maintain a constant data reception from the Cradle at distances of 360m with no line of sight.

### Connecting the antenna to the receiver

1. Open the receiver case, by releasing the four screws on the receiver back
2. Remove the wipe antenna from the screw terminal
3. Connect the antenna hot wire to the right terminal of J1 (wipe antenna location)
4. Connect the antenna shield wire to the left terminal
5. Close the receiver using its four screws



Antenna  
shield wire

Antenna  
hot wire

## Connecting the antenna to the Cradle



All Cradles produced after March 2003 have an SMA connector on their right side.

To use the external antenna, only screw the antenna to the SMA connector

SMA external antenna socket

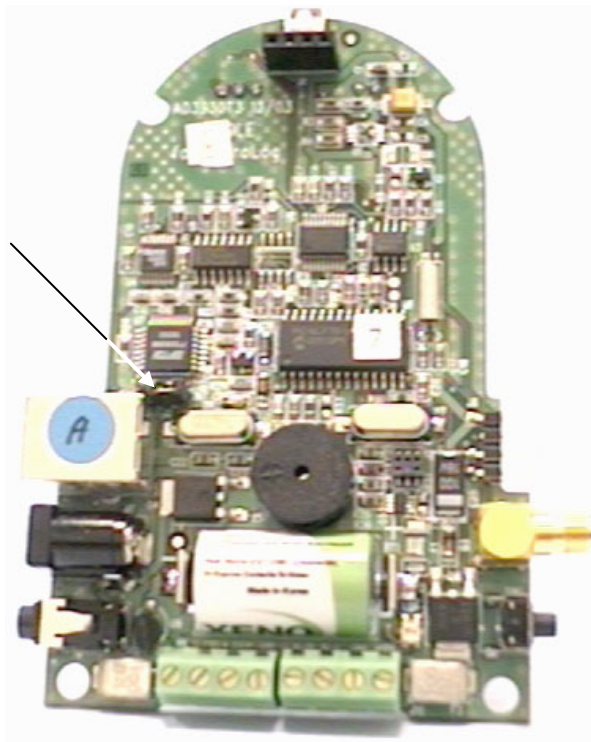
## Preparing the Cradle to work with the external antenna

The Cradle is equipped with an internal jumper that connects the transmitter either to the built in wipe antenna or to the external magnet antenna.

To change the jumper position:

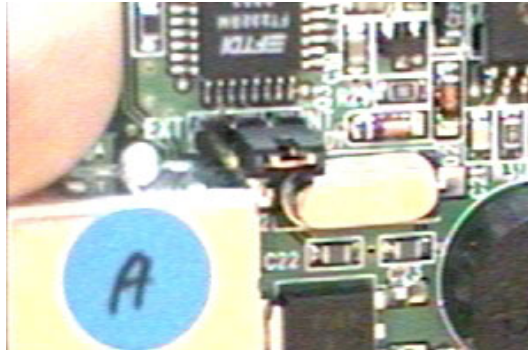
1. Unfasten the four screws at the back of the Cradle
2. Carefully rotate the Cradle
3. Remove the front cover

Antenna jumper



4. Place the jumper in the desired position

The jumper connects the middle pin either to the right-hand pin marked INT (internal antenna) or to the left-hand pin marked EXT (external antenna)



5. Replace the front cover, turn the Cradle over and refasten the four screws at the back of the cradle