Features

- **One-step backup** of one or an entire rack of controllers
- **One-step restore** in case of memory failure
- **Clone entire memory** from one controller to another
- **Create subsets** of configuration and/or satellite data
- **Intuitive interface** makes it easy to understand for all users
- **Continuous log** keeps track of all operations performed
- **Troubleshooter** makes it easy to resolve serial communication issues

Overview

This application is a backup and restore utility for RC2000A antenna controllers. It helps any user eliminate setup time by saving CONFIG items and satellite data entries into a text file.

A subset or the entire file can then be transferred back into the non-volatile memory of any RC2000A. This simple, but powerful facility makes this application an essential tool for any satellite engineer.
Requirements

- RC2000A with software version 2.7 or later
- RC1KADP Protocol Converter
- Windows 2000/XP
- Serial port / USB-to-serial adapter

Sample Text File Contents

'Configuration Data Format:
'Index, Value Description

0, 0 'Auto Pol Enable (0 - Disable, 1 - Enable)
1, 1 'Auto Pol Vpol Level (0 - Low, 1 - High)
3, 96 'Comm Port Baud Rate (3, 6, 12, 24, 48, 96 Hundreds)
4, 50 'Comm Port Address (49 - 111)
8, 446 'Azim Ow Limit (30 - 65535)
9, 430 'Elev Up Limit (30 - 65535)
17, 447 'Azim Position Cnt (30 - 65535)
20, 254 'Azim Slow Speed (0 - 254)
21, 254 'Elev Slow Speed (0 - 254)
22, 0 'Ang Disp Enable (0 - Disable, 1 - Enable)
23, 1 'Ang Disp Azim Scale (1 - 65535)
24, 0 'Ang Disp Azim Offset (0 - 65535)
25, 1 'Ang Disp Elev Scale (1 - 65535)
26, 0 'Ang Disp Elev Offset (0 - 65535)
27, 1 'Ang Disp Northern Hemi (0 - South, 1 - North)
29, 0 'Pol Ang Disp Enable (0 - Disable, 1 - Enable)
30, 500 'Pol Disp 0 Degree Cnt (1 - 1023)
31, 750 'Pol Disp 90 Degree Cnt (1 - 1023)
32, 0 'Drive Options Enable (0 - Disable, 1 - Enable)
33, 80 'Azim Fast Slow Threshold (0 - 400 Counts)
34, 4 'Azim Coast Threshold (1 - 40 Counts)
36, 3 'Azim Max Retry Cnt (2 - 5)
37, 2000 'Azim Fast Deadband (175 - 5000 MSec)
38, 800 'Azim Slow Deadband (175 - 5000 MSec)
39, 80 'Elev Fast Slow Threshold (0 - 400 Counts)
40, 4 'Elev Coast Threshold (1 - 40 Counts)
42, 3 'Elev Max Retry Cnt (2 - 5)
43, 2000 'Elev Fast Deadband (175 - 5000 MSec)
44, 800 'Elev Slow Deadband (175 - 5000 MSec)
45, 1000 'Pol Motor Jog Duration (175 - 3000 MSec)
47, 432 'Elev Position Cnt (30 - 65535)
48, 800 'Pol CCW Limit (0 - 1023)
49, 200 'Pol CW Limit (0 - CCW Limit)

'Satellite Data Format:
'Name, Azim, Elev, HPol, VPol, Band, Lon

AMC 6, 258, 118, 506, 423, 2, -720
PAS 3R, 909, 308, 506, 337, 1, -431

EDF

Research Concepts, Inc. 5420 Martindale, Shawnee, KS 66218 913-422-0210
Fax 913-422-0211 www.researchconcepts.com sales@researchconcepts.com